Drug Dosage

The authors and the publisher have exerted every effort to ensure that drug selection and dosage set forth in this text are in accord with current recommendations and practice at the time of publication. However, in view of ongoing research, changes in government regulations, and the constant flow of information relating to drug therapy and drug reactions, the reader is urged to check the package insert for each drug for any change in indications and dosage and for added warnings and precautions. This is particularly important when the recommended agent is a new and/or infrequently employed drug.

All rights reserved.
No part of this publication may be translated into other languages, reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, recording, microcopying, or by any information storage and retrieval system, without permission in writing from the publisher or, in the case of photocopying, direct payment of a specified fee to the Copyright Clearance Center (see ‘Information for Readers and Subscribers’).

© Copyright 1991 by S. Karger AG, P.O. Box, CH-4009 Basel (Switzerland) Printed in Switzerland on acid-free paper by Thür AG Offsetdruck, Pratteln


No. 1 Original Paper
Differential Effect of Haloperidol on Dopamine Release and Metabolism in Caudate Putamen and Anteromedial Frontal Cortex Using Intracerebral Dialysis
Kurata, K.; Shibata, R 1

Effects of Morphine on Memory: Interactions with Naloxone, Propranolol and Haloperidol
Saha, N.; Datta, H.; Sharma, P.L 10

Reduction in the Elevated Blood Pressure of Dahl Salt-Sensitive Rats Treated Chronically with L-5-Hydroxytryptophan
Baron, A.; Rieselmann, A.; Fregly, M.J 15

Anticholinergic Activity of Bornaprine and Its Metabolites in the Isolated Rat Atrium
Hufford, C.D.; Elmarakby, S.A.; Walker, L.A 23

Glucuronidation and Sulfation in Subcellular Fractions and in the Isolated Perfused Rabbit Lung: Influence of Ethanol
Yang, C.M.; Carlson, G.P 28
Contribution of the Gastrointestinal Tract to Lorazepam Conjugation and Clonazepam Nitroreduction
Ochs, H.R.; Greenblatt, D.J.; Eichelkraut, W.; LeDuc, B.W.; Powers, J.F.; Hahn, N. 36
Effect of Nitrofurans on Duodenal Ulceration Induced by Cysteamine or Indometacin
Ali, B.H. 49
Experimental Hyperreflexia: Effect of Intravesical Administration of Various Agents
No. 2 Original Paper
Positive Inotropic Action of Veratridine in Rat Atria: Possible Involvement of Prostanooids
Morikawa M.; Satake, N.; Shibata, S.; Shibata, T. 61
Cardiorespiratory Responses to D-Ala-2-Me-Phe-4-Met-(0)-ol-Enkephalin after Administration into the Fourth Cerebral Ventricle of the Rat: Interaction with Cholinergic Mechanisms
Rabkin, S.W. 68
Presynaptic Modulation by Adrenaline of Noradrenaline Release in Rabbit Ear Artery
Abrahamsen, J.; Nedergaard, O.A. 79
IV Contents
Effect of Histamine on Human Placental Chorionic Veins: Interaction with Serotonin
Cruz, M.A.; González, C.; Sepúlveda, W.H.; Rudolph, M.I. 86
Relaxation of Renal Arterioles by Parathyroid Hormone and Parathyroid Hormone-Related Protein
Trizna, W.; Edwards, R.M. 91
K-Opiate Agonist-Induced Inhibition of Gastrointestinal Transit in Different Strains of Mice
Bansinath, M.; Ramabadran, K.; Turndorf, H.; Puig, M.M. 97
Autoradiographic Localization of the GABA-A-Receptor Agonist (3H)-Muscimol in the Rat Intestinal Musculature
Napoleone, P.; Cavallotti, C.; de Vincentis, G.; Amenta, F. 103
Effects of Ginger on Motion Sickness Susceptibility and Gastric Function
No. 3 Original Paper
Binding Characteristics of [3H]SCH 23390 in Spinal Cord and Discrete Brain Regions of Kappa-Opiate Tolerant-Dependent and Abstinent Rats
Bhargava, H.N.; Gulati, A.; Ramarao, P. 121
Phaclofen-Sensitive GABA-B Receptors Do Not Mediate Excitatory Effects of Baclofen on Gastric Secretion
Blandizzi, C.; Bernardini, M.C.; Natale, G.; Del Tacca, M. 128
Binding of [3H]-Dopamine to Human Lymphocytes: Possible Relationship to Neurotransmitter Uptake Sites
Faraj, B.A.; Olkowski, Z.L.; Jackson, R.T. 135
Comparison of the Contractile and Metabolic Effects of Muscarinic Stimulation with Those of KCl
Levin, R.M.; Hypolite, J.; Longhurst, P.A.; Wein, A.J. 142
S-Adenosylhomocysteine Levels Are Not Involved in the Spasmolytic Activity of 3-Deaza-adenosine in Guinea-Pig Lung Parenchyma
Gieske, T.H.; Doherty, N.S.; Raddatz, R.; Stephens, D  151

Physiological and Cytotoxic Effects of Ca\textsuperscript{2+} Ionophores on Caco-2 Paracellular Permeability: Relationship of Ca\textsuperscript{2+} Efflux to Cr Release
Rutten, M.J.; Cogburn, J.N.; Schasteen, C.S.; Solomon, T  156

Effects of Controlled Liver Injury and Ethanol Pretreatment on Monoethylglycine Xylidide Formation in the Rat
Druckenbrod, R.W.; Mendenhall, C.L.; Myre, S.A.; Stanberry, E.A.; Schroeder, T.J.  169

Enhanced Diabetogenic Effects of Combined Treatment with Hydrochlorothiazide and Prednisone in Adjuvant Arthritic Rats
Atef, M.; Hanafy, M.S.M.; Arbid, M.S  177

Benzodiazepine Receptor Binding Response to Acute and Chronic Stress Is Increased in Aging Animals
Barnhill, J.G.; Miller, L.G.; Greenblatt, D.J.; Thompson, M.L.; Ciraulo, D.A.; Shader, R.I.  181

Alpha-Fluoromethylhistidine Decreases the Leu-Enkephalinamide- and Morphine-Induced Corticosterone Response in Rats
Turon, M.; Fogel, W.A.; Bugajski, J  188

Influence of the Selective Cholecystokinin Antagonist L-364,718 on Pain Threshold and Morphine Analgesia
Poggioli, R.; Vergoni, A.V.; Sandrini, M.; Barbasiera, L.; Marrama, D.; Bertolini, A.  197

Role of Substrates in the Maintenance of Contractility of the Rabbit Urinary Bladder
Hypolite, J.A.; Wein, A.J.; Haugaard, N.; Levin, R.M  202

Anatomical Localization of the Binding and Functional Characterization of Responses to Dopexamine Hydrochloride in the Rat Mesenteric Vasculature
Amenta, F.; Ricci, A.; Napoleone, P.; Vyas, S.J.; Lokhandwala, M.F  211

Effects of Ginsenoside Rbi on Central Cholinergic Metabolism

Stimulatory Effect of Beta-Alanyl-L-Histidinato Zinc on Bone Formation in Tissue Culture
Yamaguchi, M.; Miwa, H  230

Cerebral Vascular Effects of Peptide Histidine Methionine in Canine and Bovine Species
Suzuki, Y.; Satoh, S.; Lederis, K.; Rorstad, O  241

Study of the Vasodilating Activity of Salbutamol on Dog Coronary Arteries. Unexpected Effects of Methylene Blue
Bernard, F.; Jouquey, S.; Hamon, G  246

cAMP and Vascular Action of Endothelin
Yang, M.C.M.; Tu, M.S.; Chou, C.K.; Hong, C.Y.; Kuo, J.S  252

Chronic Nicotine Treatment Enhances the Depressor Responses to Arachidonic Acid in the Rat
Hui, S.C.G.; Ogle, C.W  257

Additional Antilipoperoxidant Activities of \textalpha-Tocopherol and Ascorbic Acid on Membrane-Like Systems Are Potentiated by Rutin
Nègre-Salvayre, A.; Affany, A.; Hariton, C.; Salvayre, R  262
Modulation of Acetylcholine-Stimulated Insulin Release by Glucose and Gastric Inhibitory Polypeptide
Verchere, C.B.; Kwok, Y.N.; Brown, J.C 273
Protective Effects of Misoprostol on Carbon Tetrachloride-Induced Liver Damage in the Rat
Mihas, A.A.; Markov, A.K.; Subramony, C 283
Indomethacin: Renal Handling and Effects in the Isolated Perfused Rat Kidney
Cox, P.G.F.; Moons, M.M.; Russel, F.G.M.; van Ginneken, C.A.M 287
No. 6 Original Paper
Essential Role of ATP and Possibility of Activation of Protein Kinase C in Ca2+-Dependent Histamine Release from Permeabilized Rat Peritoneal Mast Cells
Izushi, K.; Tasaka, K 297
Caffeine Analogs: Structure-Activity Relationships at Adenosine Receptors
Daly, J.W.; Hide, I.; Müller, C.E.; Shamim, M 309
Omeprazole and Cytochrome P450-Dependent Hepatic Metabolism: A Comparison of Endogenous and Exogenous Substrates in Male Rats
Galbraith, R.A.; Jellinck, P.H 322
A Method to Assess Histamine-Induced Cyclic AMP Production in Isolated Mucosal Cells from Human Biopsies
Contents
Preischemic Administration of Flunarizine or Phencyclidine Reduces Local Cerebral Glucose Utilization in Rat Hippocampus Seven Days after Ischemia
Nuglisch, J.; Rischke, R.; Krieglstein, J 333
Prevention of Reocclusion following Tissue-Type Plasminogen Activator-Induced Thrombolysis by the RGD-Containing Peptide, Echistatin, in a Canine Model of Coronary Thrombosis
Holahan, M.A.; Mellott, M.J.; Garisky, V.M.; Shebuski, R.J 340
Effect of Chronic Dietary Treatment with L-Tryptophan on the Development of Cold-Induced Hypertension in Rats
Riesselmann, A.; Baron, A.; Fregly, M.J.; Cade, J.R 349
Author Index 361
Subject Index 363