Contents, Vol. 33, 1986

S. Karger Medical and Scientific Publishers
Basel · München · Paris · London · New York · New Delhi · Singapore · Tokyo · Sydney

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 1986 by S. Karger AG, P.O. Box, CH-4009 Basel (Switzerland) Printed in Switzerland by Thür AG Offsetdruck, Pratteln

Contents Vol. 33, 1986

No. 1 Original Paper
Antiarrhythmic and Antifibrillatory Action of Diltiazem on Early and Late Phase Ventricular Arrhythmias following Coronary Artery Occlusion and on Reperfusion Ventricular Arrhythmias Thale, J.; Gülker, H.; Olbing, B.; Rose, D.; Bender, F 1

Studies on the Bradycardia Induced by Aprindine in Rabbit Sinoatrial Node Cells Kotake, H.; Igawa, O.; Miyamoto, J.; Hasegawa, J.; Furuse, T.; Mashiba, H 14

Effects of Repetitive Stimulation by Norepinephrine, Histamine or Potassium Chloride on Contractile Responses of Pulmonary Vascular Smooth Muscle Howell, R.E.; Carrier, G.0 21

Influence of Magnesium on Norepinephrine- and Histamine-Induced Contractions of Pulmonary Vascular Smooth Muscle Howell, R.E.; Carrier, G.0 27
Supersensitivity and Endothelium Dependency of Histamine-Induced Relaxation in Mesenteric Arteries Isolated from Diabetic Rats
White, R.E.; Carrier, G.O 34

Effect of Preload on Rat Aortic Smooth Muscle Sensitivity to Vasoactive Agents
Herlihy, J.T.; Berardo, P.V 39

1-(2-Pyrimidinyl)-Piperazine as Active Metabolite of Buspirone in Man and Rat
Caccia, S.; Conti, I.; Viganò, G.; Garattini, S 46

Effect of Chronic Treatment with Estrogen and Thyroxine, Alone and Combined, on the Rate of Deiodination of T3- to 3,3',5'-Triiodothyronine in vitro
Scammell, J.G.; Shiverick, K.T.; Fregly, M.J 52

Short Communication
Effects of Carbenoxolone Sodium on Gastric and Duodenal Mucus Synthesis in Mice
Dai, S.; Ogle, C.W.; Cho, C.H 58

No. 2 Original Paper
Effect of Mechanical Stimulation, Substance P and Vasoactive Intestinal Polypeptide on the Electrical and Mechanical Activities of Circular Smooth Muscles from Pig Coronary Arteries Contracted with Acetylcholine: Role of Endothelium
Beny, J.-L.; Brunei, P.C.; Huggel, H 61

Comparison of the Effects of Nifedipine, Diltiazem and Verapamil on the Mechanical Activity of Rabbit Papillary Muscles Induced by Barium Chloride
Roy, F.; Pruneau, D 69

Effects of Bepridil Hydrochloride on Calcium-Induced Responses in Guinea Pig Langendorff Heart
Gleason, M.M.; Gill, A.; Brannan, M.D.; Flaim, S.F 76

No Evidence for Serotonergic-Adrenergic Interactions in the Canine Total Cardiovascular System
Breuer, J.; Breuer, H.-W.M.; Meschig, R.; Arnold, G 86

IV
Contents
Protection by Zinc Sulphate against Ethanol-Induced Ulceration: Preservation of the Gastric Mucosal Barrier
Wong, S.H.; Cho, C.H.; Ogle, C.W 94

Glucuronidation of 1-Naphthol in Nuclear and Microsomal Fractions of the Human Intestine
Pacifici, G.M.; Giuliani, L.; Calcaprina, R 103

A Cytosolic Binding Protein for 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (TCDD) in the Uterus and Deciduoma of Rats
Furuhashi, N.; Kurt, R.N.; Wong, J.; Villee, C.A 110

No. 3 Original Paper
Moephologically Different Biopsy Specimens of the Human Gastric Mucosa. I. The Use of Enzymatic Cell Isolation for Quantitative Determination of Parietal Cells
Ruoff, H.-J.; Leyhe, T.; Eichhorst, U.B.; Haid, E.-M.; Malchow, H 121

Moephologically Different Biopsy Specimens of the Human Gastric Mucosa. II. Adenylate Cyclase Activity in Response to Prostaglandin E2 and Histamine
Ruoff, H.-J.; Leyhe, T.; Pfaff, G.; Rettenmaier, G.; Schmid, E 131
Effects of Nitroglycerin, Dipyridamole, Nifedipine, Verapamil and Diltiazem on Canine Coronary Arterial Rings Contracted with 5-Hydroxytryptamine and Anoxia
Barrett, J.A.; DePaul Lynch, V.†; Balkon, J.; Smith, R.D.; Wolf, P.S 139

Calcium Entry Blocking Activity of Dilazep in Dog Coronary Artery
Nakagawa, Y.; Gudenzi, M.; Mustafa, S.J 148

Effect of Bovine Heart Atrial Natriuretic and Diuretic Fractions on Sodium Transport in Isolated Toad Skin
Norris, B.C.; Pantoja, C; Concha, J.B.; Chiang, L.C 157

Effects of Mefenidil Hydrochloride on Cerebral Blood Flow in Conscious and Anesthetized Rat
Flaim, S.F.; Stranieri, M.T.; Mathiasen, J.R.; Brannan, M.D 167

No. 4 Original Paper
Characterization and Control of Cytosolic Binding Proteins for 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (TCDD) in the Rat Lung
Kurl, R.N.; Chaudhary, K.C.; Vilee, C.A 181

In vitro Activation and Resultant Binding of Benzo[a]pyrene to DNA by Microsomes from Rats Fed Corn and Menhaden Oils
Dharwadkar, S.M.; Bellows, J.T.; Ramanathan, R.; Wade, A.E 190

Cytoprotective Role of Gastric Surfactant in the Ethanol-Produced Gastric Mucosal Injury of the Rat
Szelenyi, I.; Engler, H 199

Bay K 8644 and Acetylcholine: Different Interaction with Calcium Ions in the Rat Duodenal Muscle
Coruzzi, G.; Poli, E.; Bertaccini, G 206

Effects of Carbonic Anhydrase Inhibition on Renal Ammoniagenesis in the Dog
Fine, A 217

Differences in the Role of Na⁺K⁺-ATPase during α amplified Adrenergic Events in Rat and Rabbit Aorta
Lynch, C.J.; Steer, M.L.; Smart, J.L.; Deth, R.C. 221

Metabolic Effects of Chronic ACTH Administration, Interaction with Response to Stress
Armario, A.; Campmany, L.; Hidalgo, J 235

Contents

No. 5 Original Paper
The Benzodiazepine (+)-Tifluadom (KC-6128), but Not Its Optical Isomer (KC-5911) Induces Opioid kappa Receptor-Related EEG Power Spectra and Evoked Potential Changes
Freye, E.; Boeck, G.; Schaal, M.; Ciaramelli, F 241

Blood Platelet Adrenoceptor: Aggregatory and Antiaggregatory Activity of Imidazoline Drugs
Petrusewicz, J.; Kaliszyn, R 249

Mechanisms of Tetraethylammonium-Induced Contraction in the Canine Coronary Artery
Nishio, M.; Kigoshi, S.; Muramatsu, I 256

Tachykinins: Effects on Motility and Metabolism of Rat Polymorphonuclear Leucocytes
Roch-Arveiller, M.; Regoli, D.; Chanaud, B.; Lenoir, M.; Muntaner, O.; Stralzko, S;
Giroud, J.-P 266
Interaction of Ranitidine and Famotidine with Guinea Pig-Isolated Parietal Cells
Sewing, K.-F.; Hannemann, H 274
Effects of Noncatechol Sympathomimetics on Glucose Output by Hepatocytes from Normal and Dexamethasone-Treated Rats
Parker, V.D.; Fletcher, H.P 279
Characterization of Testosterone Oxidation by Rat Lung Microsomes
Halperin-Walega, E.S.; Greene, F.E 286
Drug Interaction between Guanfacine and Nonsteroidal Antiinflammatory Drugs in Dogs
Thatte, U.M.; Gupta, K.C.; Satoskar, R.S 292
No. 6 Original Paper
Effect of Xamoterol, a \( \beta \)-Adrenoceptor Partial Agonist, on Myocardial \( \text{pH} \) Decreased by Coronary Occlusion in Dogs
Sashida, H.; Sakai, K.; Hino, T.; Abiko, Y 301
Toxicity of Promazine and Chlorpromazine to Isolated Rat Hepatocytes and ItsModification by Liposome Entrapment
Salhab, A.S.; Dujovne, C.A 311
Genetic and Salt-Related Alterations in Monoamine Neurotransmitters in Dahl Salt-Sensitive and Salt-Resistant Rats
Dawson, R.; Oparil, S 322
Physiologic Responses to Chronic Dietary Tyrosine Supplementation in DOCA-Salt-Treated Rats
Henley, W.N.; Fregly, M.J.; Wilson, K.M.; Hathaway, S 334
Author Index 348
Subject Index 349