
Contents

Preface	XI
<i>Drugs and Behavior: An Introduction</i>	
Streufert, S. (Hershey, Pa.); Gengo, F.M. (Buffalo, N.Y.)	1
Quality of Life	2
Drug Therapy and Human Functioning	3
Treatment Alternatives	4
Approaches to the Study of Drugs and Human Functioning	6
Making the 'Marriage' Work	6
The Problem of Research Method	7
Drug Effects on Complex Functioning	10
References	11
<i>Antihypertensives and Quality of Life</i>	
Streufert, S.; Pogash, R. (Hershey, Pa.)	13
Quality of Life	15
Measuring the Impact of Antihypertensive Medications	15
Compliance	16
Measurement Techniques	17
Measurement Quality and Measurement Bias	24
Data: The Impact of Antihypertensives upon Quality of Life	27
Evidence from Individuals Treated for Central Nervous System Abnormality	27
Evidence from the Treatment of Hypertensives	27
Application of Research Results	34
Cost and Benefit in the Treatment of Hypertensive Patients	34
Alternatives to Drug Treatment	36
Choice of Medication	37
The Lipophilic versus Hydrophilic Issue	37
Selectivity	38
Making a Choice	38
Postscript: The Impact of Stress Experience	39
References	41

Effects of Drugs on Human Functioning: Antihistamines

Manning, C.; Gengo, F.M. (Buffalo, N.Y.)	52
The Role of Histamine in the Human Brain	53
The Classical Antihistamines	54
Measurement of Drowsiness	56
Measurement of Impairment	57
Sensory Processing	58
Central Integration and Processing	59
Overt Motor Responses	59
Overall Sensorimotor Coordination	60
Extrapolation of Laboratory Measures to Daily Activities	60
Strategies for Antihistamines That Produce Less Central Nervous System Effects	63
Tolerance	66
References	66

Psychotropic and Narcotic Drugs and Quality of Life

Martin, E.D. (Hershey, Pa.)	70
Psychotropic Drugs	71
Antidepressants	71
Lithium	82
Neuroleptics	84
Psychotropic Effects on Memory	87
Effects of Psychotropic Drugs on Skilled Performance	93
Guidelines for Prescribing Psychotropics	95
Analgesics and Narcotics	99
Nonnarcotic Analgesics	100
Narcotic Analgesics	101
Effects of Narcotics on Cognitive and Motor Functioning	105
Clinical Use of Opiate Analgesics	107
Conclusion	108
References	108

Cognitive and Behavioral Effects of Anticonvulsants in Children

Kohrman, M.H. (Buffalo, N.Y.)	114
Epilepsy in Children	114
Assessment of Performance	115
Cognitive Changes Associated with Epilepsy	116
Experimental Design of Studies of Cognitive/Behavioral Function	119
Cognitive and Behavioral Changes Associated with Anticonvulsants	124
Phenobarbital	124
Phenytoin	126
Carbamazepine	127
Valproate	128
Ethosuximide	129

Conclusion	130
References	130

*Central Nervous System Effects of Drug Therapy
in Aged Individuals*

Fullerton, T.; Gengo, F.M. (Buffalo, N.Y.)	134
Age-Related Change in Drug Disposition and Effect	135
Age-Related Changes in Pharmacokinetics	136
Absorption	136
Distribution	138
Metabolism	140
Elimination	142
Pharmacodynamics	143
Polypharmacy and Drug Interactions	145
Effects of Specific Drug Classes on Performance in the Aged	148
Sedative-Hypnotics	148
Anticholinergics	151
Antidepressants and Antipsychotics	153
Cardiovascular Agents	155
H ₂ Antagonists	157
Miscellaneous	158
Minimizing Drug-Induced Central Nervous System Effects in the Aged	159
Conclusions	160
References	161

Bringing Quality of Life to Bear in the Clinic

Hufford, D.J. (Hershey, Pa.)	169
Orientation of the Chapter	170
The Case	170
Quality-of-Life Issue No. 1	172
Quality-of-Life Issue No. 2	173
Summary	174
Discussion	174
Generalizability	174
Ethics	175
Negotiating Treatment Procedures: The Importance of Communication	177
Aggregating Knowledge to Optimize Treatment Decisions	177
References	178
Subject Index	179