INDEX

Note: Page numbers in *italics* indicate figures; page numbers followed by t refer to tables.

```
α-adrenergic blockade
 in sexual dysfunction, 106t
 vasoconstriction with, 124
Abdominal discomfort
 clozapine and, 66t
 quetiapine and, 80t
 risperidone and, 84t
Abilify. See also Aripiprazole.
 adverse effects of, 60-61, 61t
 clinical trials in, 59
 dopamine effects, 59
 dosing information for, 56-57t, 59
 efficacy, 59
 history and mechanism of action, 58
 in management of acute psychosis, 170-171t
 pharmacokinetics, 59
 SGAD therapy with, 37t
Abnormal gait, with olanzapine therapy, 74-75t
Abnormal Involuntary Movement Scale (AIMS), evaluation of
antipsychotic
  side effects in, 48, 49
Absorption, factors affecting, 227-228
Acarbose (Precose), antidiabetic mechanism of, 164-165t
Accidental injury
 comparative incidence of, in SGAD therapy, 99t
 with olanzapine therapy, 74-75t
 with ziprasidone, 88t
Actos. See Pioglitazone.
 antidiabetic mechanism of, 164-165t
Acute psychosis. See Psychiatric emergency.
Adherence to drug therapy. See Noncompliance.
Adolescents
 diagnosing considerations in, 213
 treatment of psychosis in, 214-216
Affect, in symptomatology of schizophrenia, 13
Age, in epidemiology of schizophrenia, 14t
Aggression
 in symptomatology of schizophrenia, 25
 management of, 172
 medications linked to, 172t
Agitation
 in rebound phenomenon, 63
 in treatment with conventional antipsychotics, 125
 with aripiprazole, 61t
 with clozapine, 66t
```

Agitation (continued)	Anhedonia (continued)
with paliperidone ER, 78t	in rebound phenomenon, 63
with risperidone, 84t	with functional brain changes, 16t
Agranulocytosis, with clozapine, 65	Anorexia, with ziprasidone, 88t
AIMS, See Abnormal Involuntary Movement Scale.	Anticholinergic side effects
Akathisia	comparative incidence of, in SGADs, 100t
comparative incidence of, in SGAD therapy, 99t, 103	comparative, with conventional antipsychotic therapy, 122, 123t, 125-126
with aripiprazole, 61t	in antipsychotic therapy for the elderly, 218
with clozapine, 66t	susceptibility to, of elderly patients, 218
with high-dose antipsychotic therapy, 172	treatment considerations in, 40-41t, 125
with long-acting risperidone, 193-194	Anticonvulsant medications
with olanzapine therapy, 74-75t	association with aggressive behavior, 172t
with ziprasidone, 88t	in management of aggression, 172
AKT1, in vulnerability for schizophrenia, 21t	Antipsychotic medication
Alcohol	introduction of, 15
abuse, with schizophrenia, 220-222	metabolism and distribution of, 228-229
association with aggressive behavior, 172t	Anxiety
Alcoholism, in predisposition to QTc prolongation, 110	comparative incidence of, in SGAD therapy, 99t
Aliphatics	in assessment of psychopathology, 44t
chemical structure of, 118-119	in symptomatology of schizophrenia, 25
in phenothiazine subtyping, 115	with aripiprazole, 61t
Alogia	with paliperidone ER, 78t
in differential diagnosis, 28t	with risperidone, 84t
in negative symptomatology of schizophrenia, 25t	Anxiety disorder
Alpha-1 receptor, adverse effects with antagonism of, 122t	treatment of, with antipsychotic drugs, 33
Alpha-glucosidase inhibitors, antidiabetic mechanism of, 164-165t	with schizophrenia, treatment of, 222-224
Altshuler, evaluation of pregnancy and antipsychotic use, 225	Appetite disturbance, in symptomatology of schizophrenia, 25
Alzheimer's disease	Arcuate, role in effect of antipsychotic drugs, 16, 17
SGAD therapy in, 219	Aripiprazole
psychosis with, in the elderly, 217	adverse effects of, 60-61, 61t
Amantadine, use of, in patients on antipsychotic drugs, 155	as first-line therapy, by comorbidity, 40-41t
Amaryl. See also <i>Glimepiride</i> .	chemical structure of, 55
antidiabetic mechanism of, 164-165t	clinical trials in, 59
Amblyopia, with olanzapine therapy, 74-75t	comparative efficacy of, 94-97, 96t
Amenorrhea	comparative incidence of extrapyramidal side effects in, 98, 102, 104
treatment considerations in, 40-41t	comparative side effects of, 98, 99t, 100t
with risperidone, 85	diabetic ketoacidosis in, 161
American Diabetes Association	dopamine effects, 59
diagnostic criteria of, for type 2 diabetes, 157-158, 158t	dopamine receptor affinity of, 101
monitoring recommendations of	dosing information for, 56-57t, 59
for glucose dysregulation, 154t, 162	effect of, on glucose homeostasis, 162
for lipid profile, 163, 165	effect of, on QTc interval, 111
American Psychiatric Association, treatment guidelines of, 35	effect on cognition by, 237
Ampakines, potential benefits of, in schizophrenia, 239	efficacy, 59
Amphetamines	history and mechanism of action, 58
association with aggressive behavior, 172t	in adolescents and children with schizophrenia, 214
positive psychotic symptoms with, 16	in combination therapy for treatment-resistant schizophrenia, 207t
Anabolic steroids, association with aggressive behavior, 172t	in management of acute psychosis, 170-171t
Anhedonia	in SGAD therapy, 37t
in negative symptomatology of schizophrenia, 25t	in the elderly, 218, 220

Aripiprazole (continued)	Benzodiazepines
in treatment algorithm, 38	association with aggressive behavior, 172t
in treatment of aggressive behavior, 173	in acute antipsychotic treatment, 35
in treatment-resistant schizophrenia, 205	in management of aggressive behavior, 172
in young patients, 97	in schizoaffective disorder, 223, 224
lipid changes with, 165	
metabolism of, 230t	in schizophrenia with depression, 223, 224
pharmacokinetics, 59	with clozapine therapy, 69
A CONTRACTOR OF THE CONTRACTOR	Benztropine, in hypersalivation,68t
potential benefits of new forms of, 182	Bethanechol
profiles for receptor binding, 54	in treatment of anticholinergic effects of conventional antipsychotics, 125
receptor affinity of, 95t	in treatment of sexual disturbance in antipsychotic therapy, 109t
relapse with, vs conventional therapy, 242	Bifeprunox, in new developments for treating schizophrenia, 250
sedative effect, in clinical trials, 112	Biguanides, antidiabetic mechanism of, 164-165t
vs risperidone in prevention of relapse, 178	Biperiden, in hypersalivation, 68t
weight gain with, 150, 151, 152t	Bipolar disorder
Arthralgia	in diagnosis of psychotic disorder, 30t
with hepatic changes in antipsychotic therapy, 128	SGAD therapy in, 222-223
with risperidone, 84t	treatment of, with antipsychotic drugs, 33
Articulation impairment, with olanzapine therapy, 74-75t	Bizarre delusions, defined, 23t
Asenapine, in new developments for treating schizophrenia, 250	Bleuler, Eugene, in early characterization of schizophrenia, 14
Asthenia	Blonanserin, in new developments for treating schizophrenia, 251
with aripiprazole, 61t	Blunted affect
with olanzapine therapy, 74-75t	in assessment of psychopathology, 47t
with quetiapine, 80t	in negative symptomatology of schizophrenia, 25t
with ziprasidone, 88t	Blurred vision, with aripiprazole, 61t
Asymmetry of frontal and occipital lobes, associated with	BPRS. See Brief Psychiatric Rating Scale.
schizophrenia, 15t	Bradycardia, in predisposition to QTc prolongation, 110
Atropine, in hypersalivation, 68t	Brain activation patterns, in treatment-resistant schizophrenia, 199
Attention, in schizophrenia, 235	Brief Psychiatric Rating Scale (BPRS)
Auditory symptoms, with functional brain changes, 16t	in assessment of psychopathology, 43, 44-47t
Autoimmune disorder, in diagnosis of psychotic disorder, 30t	in evaluation of SGAD effects in psychiatric emergency, 173
Avandia. See Rosiglitazone.	Broca's area
antidiabetic mechanism of, 164-165t	impact of functional changes in, 16t
Avolition	role in effect of antipsychotic drugs, 16, 17
in differential diagnosis, 28t	Bromocriptine
in negative symptomatology of schizophrenia, 25t	in treatment of NMS, 131-132, 132t
Avolitional syndrome, 21	in treatment of rivins, 151-152, 152t
trontional synarome, 21	Buspirone
8-adrenergic effects, in mechanism for vasoconstriction, 124	in schizoaffective disorder, 224
8-blocking agents, in management of aggressive behavior, 172	in schizophrenia with depression, 224
Back pain	1 ,
with olanzapine therapy, 74-75t	Butyrophenones
with quetiapine, 80t	as subclass of antipsychotic medication, 116, 118-119
with risperidone, 84t	chemical structure of, 118-119
1	in pregnancy/lactation, 225
Barnes Akathisia Rating Scale (BARS), in evaluation of antipsychotic	
side effects, 48, 49	CAFE study. See Comparison of Atypicals for First-Episode Psychosis
BARS. See Barnes Akathisia Rating Scale.	study.
Basal ganglia	Calcium channel blockade, in sexual dysfunction, 106t
role of, in dopaminergic receptor-deficit hypothesis, 18 role of, in effect of antipsychotic drugs, 16, <i>17</i>	Calgary Depression Rating Scale, comparison of SGAD efficacy by, 97

Cannabis	Chlorpromazine (continued)
abuse, with schizophrenia, 220-222	history of, 33, 115
association with aggressive behavior, 172t	in conventional antipsychotic therapy, 36t
Carbamazepine	in determination dosage equivalence, 116, 214
effect of, on metabolism of antipsychotic drugs, 231t	in therapy for treatment-resistant schizophrenia, 198
effect on drug absorption, 228	incidence of type 2 diabetes with, 157
in schizoaffective disorder, 223	orthostatic hypotension with, 124
in schizophrenia with depression, 223	weight gain with, 149, 151
Cardiac arrhythmias, treatment considerations in, 40-41t	Cholestyramine, effect on drug absorption, 227
Cardiac disease, in predisposition to QTc prolongation, 110	Cholinergic antagonism, in sexual dysfunction, 106t
Cardiomyopathy, with clozapine therapy, 69	Cholinesterase inhibitors, potential benefits of, in schizophrenia, 239
Cardiorespiratory arrest, with clozapine therapy, 69	Cigarette smoking, effect of, on metabolism of antipsychotic drugs, 231t
Cardiovascular effects	Cimetidine, effect of, on metabolism of antipsychotic drugs, 231t
comparative, with conventional antipsychotic therapy, 122, 123t	Cingulate gyrus, impact of functional changes in, 16t
with clozapine, 69	Circumstantiality, in thought disorder, 24t
with olanzapine, 73	Cisapride, effect of, on metabolism of antipsychotic drugs, 231t
with quetiapine, 80	Clanging, in thought disorder, 24t
with risperidone, 83	Classification of conventional medications, 116
with ziprasidone, 89	Clinical Antipsychotic Trials for Interventions Effectiveness (CATIE)
Carpenter, characterization of schizophrenia by, 21	antipsychotic medication change in, 179
Cataracts, with quetiapine, 81	economic comparisons in, 246
Catatonic type, in categorization of schizophrenia, 26	extrapyramidal side effects in, 98
Catechol-O-methyltransferase val108/158met, in predicting	extrapyramidal symptoms in, 94
antipsychotic efficacy, 236	in evaluation of antipsychotic medications, 94
CATIE trial. See Clinical Antipsychotic Trials for Interventions	incidence of type 2 diabetes in, 158
Effectiveness.	lipid changes in, 163
Caudate nucleus, role in effect of antipsychotic drugs, 16, 17	on clozapine in treatment-resistant schizophrenia, 201
CBT. See Cognitive behavior therapy.	on comparative efficacy and tolerability in SGADs, 93
Central adipose tissue, metabolic activity in, 147	sexual dysfunction in, 108
Central nervous system	weight changes in, 149, 153, 153t
measurement of, in patient evaluation, 15	Clinical Global Impression (CGI), in assessment of treatment
neurotransmitter levels of, 15	response, 43
Cerebellar atrophy, associated with schizophrenia, 15t	Clinical presentation, 20-26
CGI. See Clinical Global Impression.	Clonidine, in hypersalivation, 68t
Chest pain	Clozapine
with olanzapine therapy, 74-75t	adverse effects of, 65-71, 66-67t
with risperidone, 84t	as first-line therapy, by comorbidity, 40-41t
Children. See Adolescents.	benefit of, in risk for suicide, 174
Children's Psychiatric Rating Scale, PANSS in evaluation of	chemical structure of, 55
treatment, 216	clinical trials in, 59
Chills, with hepatic changes in antipsychotic therapy, 128	comparative incidence of extrapyramidal side effects in, 98, 102, 104
Chlorpromazine	comparative sexual function with, 106
adverse effects with, 123t	comparative side effects of, 98, 99t, 100t
anticholinergic effects of, 125	diabetic ketoacidosis in, 161
chemical structure of, 118-119	dopamine receptor affinity of, 101
contraindicated with ziprasidone, 232	dosing information for, 56-57t, 63, 63t
dopamine receptor affinity of, 101	drug interactions with, 230, 232t
dosing guidelines for, 120-121t	effect on cognition by, 237
effect on cognition by, 237	efficacy, 62
for acute agitation, 168	history, 61-62

Clozapine (continued)	Cognitive deficit, with schizophrenia, 235
in adolescents and children with schizophrenia, 214, 215-216	Cognitive disturbance, in treatment with conventional antipsychotics, 125
incidence of type 2 diabetes with, 157	Cognitive remediation (CR), in psychosocial rehabilitation, 42
increased risk for, 159, 161, 162	Cognitive symptoms, 13, 22, 23t
mechanism for, 158	Combination therapy
in combination therapy for treatment-resistant schizophrenia, 206, 207t	in the elderly, 217-220
in schizoaffective disorder, 222, 223	in treatment-resistant schizophrenia, 205-208
in schizophrenia with depression, 223	Comparison of Atypicals for First-Episode Psychosis (CAFE) study, 97
in schizophrenia with substance abuse, 221	Compliance, as factors in relapse, 241
in SGAD therapy, 37t	Conceptual disorganization, in assessment of psychopathology, 44t
in the elderly, 218, 219, 220	Concreteness, in thought disorder, 24t
in the elderly, 218, 219, 220 in therapy for treatment-resistant schizophrenia, 62, 198, 199, 200,	Confusion, with clozapine, 66t
201, 202-203t	Congenital long QT syndrome, in predisposition to QTc prolongation, 110
in treatment algorithm, 38	Constipation
in treatment of aggressive behavior, 173	comparative incidence of, in SGAD therapy, 99t
in treatment-resistant schizophrenia, 197	with aripiprazole, 61t
1 ,	with clozapine, 66t
introduction of, 34	with long-acting risperidone, 193-194
lipid changes with, 163, 165	with olanzapine therapy, 74-75t
mechanism of action, 62	with quetiapine, 80t
metabolic syndrome with, 146	with risperidone, 84t
metabolism of, 230t	with rispertione, 84t
pharmacokinetics, 64	Consumption of a large meal, in predisposition to QTc prolongation, 110
potential benefits of new forms of, 182	Conventional therapy. See also specific drugs.
potential cost benefits of, 246	adverse effects of, 121-132
profiles for receptor binding, 54	available agents for, 36t
rebound phenomenon with, 63	
receptor affinity of, 95t	chemical structure of, 115, 118-119
serotonin selectivity of, 19	depot preparations of, 190-191, 191t
vs chlorpromazine, in Kane, 62	effect on cognition by, 237
vs risperidone in treatment-resistant schizophrenia, 201	efficacy and dosing, 116-117, 120-121t
weight gain with, 149, 150, 151	history of, 115
Clozaril. See also <i>Clozapine</i> .	in adolescents and children with schizophrenia, 214
adverse effects of, 65-71, 66-67t	incidence of extrapyramidal effects with, vs SGAD therapy, 98, 102
clinical trials in, 59	increased risk of suicide with, 174
dosing information for, 56-57t, 63, 63t	limitations of, 33
efficacy, 62	mechanisms of action, 115
history, 61-62	overview of, 34-35
in SGAD therapy, 37t	pharmacokinetics, 117
in therapy for treatment-resistant schizophrenia, 198	vs SGAD therapy in treatment adherence, 242-243
mechanism of action, 62	vs SGADs in treatment adherence, 242-243
pharmacokinetics, 64	vs SGADs, 34
rebound phenomenon with, 63	Cortical atrophy
CNS. See Central nervous system.	in schizophrenia, 15t
Cocaine	in treatment-resistant schizophrenia, 199
abuse, with schizophrenia, 220-222	Cost-effectiveness. See also <i>Economics</i> .
association with aggressive behavior, 172t	of SGADs vs conventional therapy, 35
positive psychotic symptoms with, 16	Cough
Cognitive behavior therapy (CBT)	with aripiprazole, 61t
in combination therapy for treatment-resistant schizophrenia, 208	with olanzapine therapy, 74-75t
in psychosocial rehabilitation, 42	with risperidone, 84t
, , , , , , , , , , , , , , , , , , ,	with ziprasidone, 88t

CR. See Cognitive remediation.	Diazepam, for acute agitation, 168
Creatine phosphokinase, in Levenson's diagnostic criteria for NMS, 131t	Dibenzodiazepines, as subclass of antipsychotic medication, 116, 118-119
Cyproheptadine, in treatment of sexual disturbance in antipsychotic	Dibenzoxazepines, chemical structure of, 118-119
therapy, 109t	Diencephalic gliosis, associated abnormalities of, in schizophrenia, 15t
	Dihydroergotamine, with clozapine therapy, 69
D-amino-acid-oxidase activator, in vulnerability for schizophrenia, 21t	Dihydroindolones
DAO, in vulnerability for schizophrenia, 21t	as subclass of antipsychotic medication, 116, 118-119
DAOA, in vulnerability for schizophrenia, 21t	chemical structure of, 118-119
Deafness, in diagnosis of psychotic disorder, 30t	Diltiazem, effect of, on metabolism of antipsychotic drugs, 231t
Deficit syndrome, 21, 25, 25t	Diphenylbutylpiperidines
Definition of schizophrenia, 20	as subclass of antipsychotic medication, 116, 118-119
Delirium, in diagnosis of psychotic disorder, 30t	chemical structure of, 118-119
Delusions	DISC1, in vulnerability for schizophrenia, 21t
in differential diagnosis, 28t	Disorganized behavior
in symptomatology of schizophrenia, 13	in differential diagnosis, 28t
of influence, 23t	in symptomatology of schizophrenia, 13
types of, 22, 23t	Disorganized speech
with functional brain changes, 16t	in differential diagnosis, 28t
Deménce précoce, in historical description of mental illness, 14	in symptomatology of schizophrenia, 13
Dementia	Disorganized type, in categorization of schizophrenia, 26
in diagnosis of psychotic disorder, 30t	Disorientation
treatment of, with antipsychotic drugs, 33	in assessment of psychopathology, 47t
Dementia praecox, in historical description of mental illness, 14, 222	in treatment with conventional antipsychotics, 125
Depersonalization, defined, 23t	Dizziness
Depression Depression	comparative incidence of, in SGAD therapy, 99t
in assessment of psychopathology, 45t	with clozapine, 66t
treatment of, with antipsychotic drugs, 33	with clozapine, oot with olanzapine therapy, 74-75t
with schizophrenia, SGAD therapy in, 222-223	with paliperidone ER, 78t
Derealization, defined, 23t	with quetiapine, 80t
	* * ·
Dermatologic effects, of conventional psychotic therapy, 127	with ziprasidone, 88t
Desmopressin, in clozapine therapy, 71	Docusate, in treatment of anticholinergic effects of conventional
Diabeta. See Glyburide.	antipsychotics, 125
antidiabetic mechanism of, 164-165t	Dofetilide, contraindicated with ziprasidone, 89
Diabetes	Dopamine receptor antagonism
classification of, 157-158, 158t	adverse effects of, 122t
management of, 162, 164-165t	effect of, on satiety, 148
mechanism of action, 158, 160	in conventional therapy, 115
risk of, in schizophrenia, 156	in mechanism of action, conventional therapy, 53
in untreated patients, 159-161	in sexual dysfunction, 106t
treatment considerations in, 40-41t	Dopamine transmission, role of, in schizophrenia, 19
Diabetic ketoacidosis	Dopamine transmitter system, dysfunction of, in schizophrenia, 18
with antipsychotic drugs, 161	Dopaminergic hyperactivity, impact on glucose metabolism, 18
management of, 162-163	Dopaminergic hypoactivity, impact on glucose metabolism, 18
Diagnostic and Statistical Manual of Mental Disorders, 4th edition	Dopaminergic receptor-deficit hypothesis, 18-19, 249
definition of schizophrenia in, 26	Dopaminergic system, in etiology of schizophrenia, 16-19, 17, 18t
rating scales used by, 48	Droperidol, contraindicated with ziprasidone, 232
Diagnostic criteria, 26-27, 28-29	Drowsiness, with clozapine, 66t
Diarrhea	Drug absorption, factors affecting, 227-228
with clozapine, 67t	Drug interactions, 227-233
with ziprasidone, 88t	Drug intoxication, in diagnosis of psychotic disorder, 30t

Dry mouth	Extrapyramidal symptoms (continued)
comparative incidence of, in SGAD therapy, 99t	in CATIE trial, 94
with clozapine, 66t	in schizophrenia with substance abuse, 220-222
with long-acting risperidone, 193-194	in sexual dysfunction, 106t
with olanzapine therapy, 74-75t	noncompliance due to, 242
with quetiapine, 80t	SGAD vs conventional therapy in children, 215
with ziprasidone, 88t	susceptibility to, of elderly patients, 218
Dry skin, with risperidone, 84t	treatment considerations in, 40-41t
D-serine, potential benefits of, in schizophrenia, 239	with haloperidol therapy, 168
DTNBP1, in vulnerability for schizophrenia, 21t	with paliperidone ER, 77, 78t
Duration of symptoms, in differential diagnosis, 28t	with risperidone, 84t
The state of the s	
Duration of untreated psychosis, impact on prognosis, 96	with SGAD vs conventional therapy, 98
Dysbindin, in vulnerability for schizophrenia, 21t	with ziprasidone, 88t
Dyspepsia	Extremity pain, with olanzapine therapy, 74-75t
comparative incidence of, in SGAD therapy, 99t	
with aripiprazole, 61t	Family education, in psychosocial rehabilitation, 42
with long-acting risperidone, 193-194	Farampator
with olanzapine therapy, 74-75t	in new developments for treating schizophrenia, 251
with paliperidone ER, 78t	potential benefits of, in schizophrenia, 239
with quetiapine, 80t	Fatigue
with risperidone, 84t	with clozapine, 67t
with ziprasidone, 88t	with hepatic changes in antipsychotic therapy, 128
1	with long-acting risperidone, 193-194
Early-onset schizophrenia, 213	Fazaclo. See also <i>Clozapine</i> .
Ecchymosis, with olanzapine therapy, 74-75t	in SGAD therapy, 37t
Echolalia, in thought disorder, 24t	FDA. See Food and Drug Administration.
Economics, impact of schizophrenia on, 244-245, 245t	Female gender, in predisposition to QTc prolongation, 110
Elderly patients, antipsychotic treatment of, 216-220	Fenfluramine, use of, in patients on antipsychotic drugs, 155
Electroconvulsive therapy, in treatment-resistant schizophrenia, 205	Fever
Electrolyte imbalance, in diagnosis of psychotic disorder, 30t	comparative incidence of, in SGAD therapy, 99t
Emotional withdrawal, in assessment of psychopathology, 44t	in Levenson's diagnostic criteria for NMS, 131t
Employment, issues in schizophrenia, 243	in treatment with conventional antipsychotics, 125
Endocrine disturbances	with clozapine, 66t
in diagnosis of psychotic disorder, 30t	with hepatic changes in antipsychotic therapy, 128
with antipsychotic therapy, 129	with olanzapine therapy, 74-75t
Enuresis, in antipsychotic-treated children, 215	with quetiapine, 80t
Ephedrine, in clozapine therapy, 71	with risperidone, 84t
Epidemiologic Catchment Area Study, schizophrenia in the elderly in,	FGA. See First-generation antipsychotic (drug).
216-217	First-generation antipsychotic drug. See also Conventional therapy.
Epidemiology, 13-14, 14t	in treatment algorithm, 38
Epilepsy, in diagnosis of psychotic disorder, 30t	vs second-generation agents, 96-97
Epileptogenic effects, with antipsychotic therapy, 128	Fluency, in schizophrenia, 235
Ergotomatic delusions, defined, 23t	Fluid imbalance, in diagnosis of psychotic disorder, 30t
Erythromycin, effect of, on metabolism of antipsychotic drugs, 231t	Fluoroquinolones, effect of, on metabolism of antipsychotic drugs, 231t
Etiology of schizophrenia, 16	Fluoxetine
Excitement, in assessment of psychopathology, 47t	effect of, on metabolism of antipsychotic drugs, 231t
Executive function, in schizophrenia, 235	in schizoaffective disorder, 223
Extrapyramidal pathway, role in effect of antipsychotic drugs, 16, 17	the state of the s
	in schizophrenia with depression, 223
Extrapyramidal symptoms	Fluphenazine
comparative incidence of, in SGAD therapy, 99t, 100t	adverse effects with, 123t

Fluphenazine (continued)	Glimepiride (Amaryl), antidiabetic mechanism of, 164-165t
chemical structure of, 118-119	Glipizide (Glucotrol), antidiabetic mechanism of, 164-165t
depot preparations of, 119-120	Global Assessment of Function (GAF) scale, vs GAS in evaluation of
dopamine receptor affinity of, 101	function, 48
dosing guidelines for, 120-121t	Global Assessment Scale (GAS)
for long-acting antipsychotic therapy, 190, 191t	example of, 50-51t
in conventional antipsychotic therapy, 36t	in evaluation of function, 48
in treatment algorithm, 38	Glucophage. See Metformin.
introduced for antipsychotic use, 33	antidiabetic mechanism of, 164-165t
metabolism, 229-233	Glucophage XR. See <i>Metformin</i> .
relapse with, 242	antidiabetic mechanism of, 164-165t
vs risperidone in treatment-resistant schizophrenia, 201	Glucose dysregulation, in psychotic patients, 156-163
weight gain with, 151	Glucose metabolism
Fluvoxamine	comparative changes of, in SGADs, 100t
effect of, on metabolism of antipsychotic drugs, 231t	role of, in dopaminergic receptor-deficit hypothesis, 18
in combination therapy for treatment-resistant schizophrenia, 207t	Glucotrol. See <i>Glipizide</i>
in schizoaffective disorder, 223	antidiabetic mechanism of, 164-165t.
in schizophrenia with depression, 223	Glucovance. See <i>Glyburide and metformin</i> .
MRI. See Functional magnetic resonance imaging.	antidiabetic mechanism of, 164-165t
Food and Drug Administration (FDA)	Glutamate release, role of, in schizophrenia, 19
guidelines for clozapine (Clozaril) in resistant disease, 198, 202-203t	Glutamate subtype receptor, role of, in schizophrenia, 18-19
recommendations for clozapine administration, 65	Glutamate transmitter system, dysfunction of, in schizophrenia, 18
Frontal cortex, role of, in dopaminergic receptor-deficit hypothesis, 18	Glutaminergic transmission, role in cognitive processes, 238
Functional abnormalities, 15, 15t, 16t	Glyburide (Diabeta), antidiabetic mechanism of, 164-165t
Functional magnetic resonance imaging (fMRI), in characterization of	Glyburide and metformin (Glucovance), antidiabetic mechanism of,
brain abnormality, 14	164-165t
Fungal dermatitis, with ziprasidone, 88	Glycine, potential benefits of, in schizophrenia, 239
Future direction of therapy, 249-252	Glycopyrrolate, in hypersalivation, 68t
a utule direction of therapy, 247-252	Glyset. See <i>Miglitol</i> .
Galactorrhea, with risperidone, 107	antidiabetic mechanism of, 164-165t
Galantamine, potential benefits of, in schizophrenia, 239	Grandiose delusions, defined, 23t
GAF. See Global Assessment of Function scale.	in assessment of psychopathology, 45
GAS. See Global Assessment by Function scale.	Grapefruit, effect of, on metabolism of antipsychotic drugs, 231t
Gastrointestinal disturbance, with hepatic changes in antipsychotic	Guilt feelings, in assessment of psychopathology, 45t
therapy, 128	Gynecomastia, with risperidone, 107
Gatifloxacin, contraindicated with ziprasidone, 232	Oynecomastia, with rispertuone, 107
Genes involved in schizophrenia, 20-21	Haldol. See also Haloperidol.
Genetic polymorphism, interaction of, with antipsychotic therapy, 236	•
Genetic predisposition, potential role in psychotic disease, 19-20, 20-21t	in conventional antipsychotic therapy, 36t Hallucinations
Geodon. See also <i>Ziprasidone</i> .	in assessment of psychopathology, 46t
adverse effects, 87-90, 88t	in differential diagnosis, 28t
	<i>G</i> ,
dosing information for, 56-57t	in symptomatology of schizophrenia, 13, 22
efficacy, 86-87	in treatment with conventional antipsychotics, 125
history, 86	Halofantrine, contraindicated with ziprasidone, 232
in management of acute psychosis, 170-171t	Haloperidol
in SGAD therapy, 37	adverse effects with, 123t
mechanism of action, 86	chemical structure of, 118-119
pharmacokinetics, 87	chemical structure of, 55
Geriatrics. See Elderly patients.	comparative incidence of extrapyramidal side effects in, 98, 102, 104
Glaucoma, with conventional antipsychotic therapy, 126	depot preparations of, 119-120

Haloperidol (continued)	Histamine receptor
dopamine receptor affinity of, 101	adverse effects with antagonism of, 122t
dosing guidelines for, 120-121t	influence of, in weight gain, 140, 150
effect of, on metabolism of antipsychotic drugs, 231t	Historical perspective, 13
effect of, on QTc interval, 111	Homovanillic acid (HVA), role of, in dopaminergic receptor-deficit
effect on cognition by, 237	hypothesis, 18
extrapyramidal symptoms in, 168	Hostility
for acute agitation, 168	in assessment of psychopathology, 46t
for long-acting antipsychotic therapy, 190, 191t	in symptomatology of schizophrenia, 25
in adolescents and children with schizophrenia, 214	Huntington's chorea, in diagnosis of psychotic disorder, 30t
in CATIE trial, 94	HVA. See Homovanillic acid.
in conventional antipsychotic therapy, 36t	Hypercapnia, in diagnosis of psychotic disorder, 30t
in long-term maintenance therapy, 178	Hyperglycemia, in predisposition to QTc prolongation, 110
in pregnancy/lactation, 225	Hyperkinesia, with paliperidone ER, 78t
in schizophrenia with substance abuse, 221	Hyperlipidemia
in treatment algorithm, 38	in schizophrenic patients, 163
in treatment of aggressive behavior, 173	management of, 163, 165
introduced for antipsychotic use, 33	treatment considerations in, 40-41t
metabolism of, 229-233, 230t	with antipsychotic therapy, 163
of SGADs, 95t	Hypersalivation
potential cost benefits of, 246	in antipsychotic-treated children, 215
profiles for receptor binding, 54	with clozapine, 68
remission rates with, 185	treatments for, 68t
surgically implantable, long-acting, preclinical studies of, 195	Hypertension
vs olanzapine, 72	with clozapine, 66t
vs risperidone in prevention of relapse, 178	with clozapine, oot with olanzapine therapy, 74-75t
vs risperidone in treatment-resistant schizophrenia, 201	Hyperthyroidism, in diagnosis of psychotic disorder, 30t
vs ziprasidone, 87	
*	Hypertonia, with olanzapine therapy, 74-75t
weight gain with, 150, 151	Hypertriglyceridemia, treatment considerations in, 40-41t
Headache	Hypnagogic hallucinations, in diagnosis of psychotic disorder, 30t
comparative incidence of, in SGAD therapy, 99t	Hypnopompic hallucinations, in diagnosis of psychotic disorder, 30t
with aripiprazole, 61t	Hypoadrenocorticism, in diagnosis of psychotic disorder, 30t
with clozapine, 66t	Hypocalcemia, in predisposition to QTc prolongation, 110
with paliperidone ER, 78t	Hypoglycemia, in diagnosis of psychotic disorder, 30t
with quetiapine, 80t	Hypokalemia, in predisposition to QTc prolongation, 110
with risperidone, 84t	Hypokinesia, with clozapine, 66t
Heart failure, in predisposition to QTc prolongation, 110	Hypomagnesemia, in predisposition to QTc prolongation, 110
Hecker, in early characterization of mental illness, 14	Hypotension
Hematologic side effects	comparative incidence of, in SGAD therapy, 99t
of clozapine, 65	with clozapine, 66t
of conventional psychotic therapy, 126	Hypothalamus, role in effect of antipsychotic drugs, 16, 17
Hepatic disease, in diagnosis of psychotic disorder, 30t	Hypothyroidism
Hepatic effects, of conventional psychotic therapy, 127	in diagnosis of psychotic disorder, 30t
Hepatic metabolism	in predisposition to QTc prolongation, 110
of paliperidone ER, 76	with quetiapine, 79
of risperidone, 83	Hypoxia, in diagnosis of psychotic disorder, 30t
Hippocampus	
impact of functional changes in, 16t	Ideas of reference, defined, 23t
role in effect of antipsychotic drugs, 16, 17	Iloperidone, in new developments for treating schizophrenia, 250
	Increased appetite, with olanzapine therapy, 74-75t

Insomnia	Low-energy diets, in predisposition to QTc prolongation, 110
in rebound phenomenon, 63	Loxapine
with aripiprazole, 61t	adverse effects with, 123t
with clozapine, 67t	chemical structure of, 118-119
with olanzapine therapy, 74-75t	dopamine receptor affinity of, 101
with paliperidone ER, 78t	dosing guidelines for, 120-121t
with risperidone, 84t	in conventional antipsychotic therapy, 36t
Invega. See also Paliperidone ER.	Loxitane. See also <i>Loxipine</i> .
adverse effects, 77, 78t	in conventional antipsychotic therapy, 36t
dosing, 76	LSD. See Lysergic acid diethylamide.
efficacy, 75-76	Lurasidone, in new developments for treating schizophrenia, 251
history, 75	Lysergic acid diethylamide (LSD), role of, in generation of serotonin
in SGAD therapy, 37t	hypothesis of psychosis, 19
mechanism of action, 75	
pharmacokinetics, 76	Maintenance therapy, recommendations for, 177
Itraconazole, effect of, on metabolism of antipsychotic drugs, 231t	Major depression, in diagnosis of psychotic disorder, 30t
	Malaise
Jervell and Lange-Nielsen syndrome, in predisposition to QTc	in rebound phenomenon, 63
prolongation, 110	with hepatic changes in antipsychotic therapy, 128
Joint pain, with olanzapine therapy, 74-75t	Manic depressive psychosis, Kraepelin description of, 222
r	Mannerisms, in assessment of psychopathology, 45t
Kahlbaum, in early characterization of mental illness, 14	Marijuana. See <i>Cannabis</i> .
Ketamine	MATRICS project, consensus building in, 236
role of, in modeling schizophrenia, 18	Medical disorder, exclusion of, in diagnosis of schizophrenia, 29t
potential benefits of, in schizophrenia, 239	Mefloquine, contraindicated with ziprasidone, 232
Ketoconazole, effect of, on metabolism of antipsychotic drugs, 231t	Meglitinides, antidiabetic mechanism of, 164-165t
Kraepelin	Mellaril. See also <i>Thioridazine</i> .
characterization of schizophrenia by, 21, 222	in conventional antipsychotic therapy, 36t
in early characterization of mental illness, 14	Memory, in schizophrenia, 235
Kussmaul's respiration, 161	Menstrual irregularities
120001111110111111111111111111111111111	with conventional antipsychotic therapy, 103
Lack of insight, defined, 23t	with olanzapine, 107
Lactation, management of schizophrenia during, 224-225	with risperidone, 107
Lamotrigine, in combination therapy for treatment-resistant schizophrenia,	Meridia. See Sibutramine.
207t	Mesocortical
Leukopenia, with clozapine, 66t	effect of antipsychotic drugs on, 18
Lightheadedness, with aripiprazole, 61t	role in effect of antipsychotic drugs, 16, 17
Lipid abnormalities, comparative incidence of, in SGADs, 100t	Mesolimbic pathway
Lithium	effect of antipsychotic drugs on, 18
effect on drug absorption, 228	role in effect of antipsychotic drugs, 16, 17
in renal impairment, 233	Mesoridazine
in schizoaffective disorder, 223	adverse effects with, 123t
in schizophrenia with depression, 223	anticholinergic effects of, 125
Liver disease, in predisposition to QTc prolongation, 110	chemical structure of, 118-119
Long-acting antipsychotic drug therapy	contraindicated with ziprasidone, 232
benefits and disadvantages of, 189-190	dosing guidelines for, 120-121t
SGAD vs conventional, 189, 190-191	effect on cognition by, 237
Long-term outcome, 241-243	in conventional antipsychotic therapy, 36t
Loose association, in thought disorder, 24t	weight gain with, 151
Lorazepam, for acute agitation, 168	Metabolic abnormalities, in predisposition to QTc prolongation, 110
Lorazopani, ioi acate agnation, 100	incacone aunormanico, in predisposition to Q1e protongation, 110

Metabolic conditions, in diagnosis of psychotic disorder, 30t	Navane. See also Thiothixene.
Metabolic syndrome	in conventional antipsychotic therapy, 36t
cardiovascular disease in, 145, 146t	NCEP. See National Cholesterol Education Program.
in schizophrenic patients, 146	Nefazodone, effect of, on metabolism of antipsychotic drugs, 231t
in treatment of anticholinergic effects of conventional antipsychotics, 125	Negative symptoms
Metamucil	characterization of, 22, 25, 25t
NCEP definition of, 145,	effect of antipsychotic drugs on, 18
role of antipsychotic medications in, 46	in differential diagnosis, 28t
Metformin (Glucophage, Glucophage XR), antidiabetic mechanism of,	with functional brain changes, 16t
164-165t	Neologism, in thought disorder, 24t
Midriasis, in treatment with conventional antipsychotics, 125	Neoplasm, in diagnosis of psychotic disorder, 30t
Mifepristone, in new developments for treating schizophrenia, 250	Neuregulin, in vulnerability for schizophrenia, 21t
Miglitol (Glyset), antidiabetic mechanism of, 164-165t	Neuroadrenoline antagonism, effect of, on satiety, 148
Migraine, in diagnosis of psychotic disorder, 30t	Neurocognition
Mitral valve prolapse, in predisposition to QTc prolongation, 110	deficits in schizophrenia, 235
Moban. See also <i>Molindone</i> .	importance of, in treatment outcome, 236
in conventional antipsychotic therapy, 36t	susceptibility to, of elderly patients, 218
Molindone, weight gain with, 151	Neuroleptic agents. See Conventional therapy.
adverse effects with, 123t	Neuroleptic Malignant Syndrome (NMS), 130-132, 131t, 132t
chemical structure of, 118-119	Neurologic conditions, in diagnosis of psychotic disorder, 30t
dopamine receptor affinity of, 101	Nigrostriatal tract
dosing guidelines for, 120-121t	effect of antipsychotic drugs on, 18
in conventional antipsychotic therapy, 36t	role in effect of antipsychotic drugs, 16, 17
Mood disorder	Nizatadine, use of, in patients on antipsychotic drugs, 155
exclusion of, in diagnosis of schizophrenia, 29t	N-methyl-D-aspartate (NMDA), role of, in schizophrenia, 18-19
with schizophrenia, treatment of, 222-224	NMS. See Neuroleptic Malignant Syndrome.
Morel, in early characterization of mental illness, 14	Nonadherence, treatment considerations in, 40-41t
Motor retardation, in assessment of psychopathology, 47t	Noncompliance
Movement, effect of antipsychotic drugs on, 18	adverse effects, as cause of, 182
Moxifloxacin, contraindicated with ziprasidone, 89, 232	contributing factors in, 181, 181t
Muscarinic receptor, adverse effects with antagonism of, 122t	improvement of, with SGADs, 182
Myalgia, with hepatic changes in antipsychotic therapy, 128	new formulations for, 182
Myocardial infarction, in predisposition to QTc prolongation, 110	nonpharmacologic methods for improving, 183
Myocardial ischemia, in predisposition to QTc prolongation, 110	relapse factors in, 241
Myocarditis, in predisposition to QTc prolongation, 110	Nonpharmacologic therapy, 39, 42
Myoclonus, as warning sign in clozapine therapy, 70	Psychosocial interaction as, 39
	NRG1, in vulnerability for schizophrenia, 21t
Nateglinide (Starlix), antidiabetic mechanism of, 164-165t	Nucleus accumbens, role in effect of antipsychotic drugs, 16, 17
National Cholesterol Education Program, definition of metabolic	
syndrome, 145, 46t	Obesity
National Institutes of Mental Health	in predisposition to QTc prolongation, 110
MATRICS project of, 236	treatment considerations in, 40-41t
recommendations on clozapine therapy, 63	Olanzapine
Nausea	adverse effects of, 73, 74t
comparative incidence of, in SGAD therapy, 99t	as first-line therapy, by comorbidity, 40-41t
in rebound phenomenon, 63	chemical structure of, 55
with aripiprazole, 61t	comparative efficacy of, 94-97, 96t
with clozapine, 66t	comparative incidence of extrapyramidal side effects in, 98, 102, 104
with risperidone, 84t	comparative side effects of, 98, 99t, 100t
with ziprasidone, 88t	diabetic ketoacidosis in, 161

Olanzapine (continued)	Overinclusiveness, in thought disorder, 24t
discontinuation rates, in CATIE, 179	o vermenasiveness, in alought disorder, 2 to
dopamine receptor affinity of, 101	Paliperidone ER
dosing information for, 56-57t, 72	adverse effects, 77, 78t
drug interactions with, 230, 232t	as first-line therapy, by co-morbidity, 40-41t
effect of, on QTc interval, 111	chemical structure of, 55
effect on cognition by, 237	comparative incidence of extrapyramidal side effects in, 98, 102, 104
efficacy, 71	comparative side effects of, 98, 99t, 100t
history of, 71	dosing, 76
in adolescents and children with schizophrenia, 214, 215-216	efficacy, 75-76
in CAFE study, 97	history, 75
in CATIE trial, 94	in adolescents and children with schizophrenia, 214
in combination therapy for treatment-resistant schizophrenia, 207t	in new developments for treating schizophrenia, 250
in first-episode schizophrenia, 97	in SGAD therapy, 37t
in management of acute psychosis, 170-171t	in treatment-resistant schizophrenia, 205
in new developments for treating schizophrenia, 250	
in schizophrenia with substance abuse, 221	in young patients, 97
in SGAD therapy, 37t	mechanism of action, 75
in the elderly, 218, 220	pharmacokinetics, 76
in therapy for treatment-resistant schizophrenia, 199	sedative effect, in clinical trials, 112
in treatment algorithm, 38	studies of, 75-76
in treatment of aggressive behavior, 173	weight gain with, 152t
in treatment-resistant schizophrenia, 204	PANSS. See Positive and Negative Syndrome Scale.
lipid changes with, 165	Paranoid type, in categorization of schizophrenia, 27
long-acting, phase 3 trials of, 195	Parietal cortex
mechanism of action, 71	impact of functional changes in, 16t
metabolic syndrome with, 146	role in effect of antipsychotic drugs, 16, 17
metabolism of, 229-233, 230t	Parkinsonian symptoms, in antipsychotic therapy for the elderly, 218 Parkinson's disease
pharmacokinetics, 72	in predisposition to QTc prolongation, 110
potential benefits of new forms of, 182	
profiles for receptor binding, 54	psychosis with, in the elderly, 217
receptor affinity of, 95t	SGAD therapy in, 219
remission rates with, 185	with long-acting risperidone, 193-194
sedative effect, in clinical trials, 112	Paroxetine
vs clozapine in risk for suicide, 174	effect of, on metabolism of antipsychotic drugs, 231t
vs haloperidol, 71-72	in schizoaffective disorder, 223
vs risperidone in prevention of relapse, 178	in schizophrenia with depression, 223
weight gain with, 149, 150, 151, 152t	Pathophysiology, 14-19
Omeprazole, effect of, on metabolism of antipsychotic drugs, 231t	PCP. See Phencyclidine.
Onset, in epidemiology of schizophrenia, 13, 14t	Pentamidine, contraindicated with ziprasidone, 232 Peripheral edema, with olanzapine therapy, 74-75t
Ophthalmic changes, of conventional psychotic therapy, 126	
Orap. See also <i>Pimozide</i> .	Periventricular nuclei, role in effect of antipsychotic drugs, 16, 17
in conventional antipsychotic therapy, 36t	Perphenazine
Orbitofrontal cortex, in treatment-resistant schizophrenia, 199	adverse effects with, 123t
Orlistat, use of, in patients on antipsychotic drugs, 155	chemical structure of, 118-119
OROS technology, with paliperidone ER, 75, 76	dosing guidelines for, 120-121t
Orthostatic hypotension	effect of, on metabolism of antipsychotic drugs, 231t in CATIE trial, 94, 153t
comparative incidence of, in SGADs, 100t	
in antipsychotic therapy for the elderly, 218	in conventional antipsychotic therapy, 36t
with clozapine therapy, 69	in schizophrenia with substance abuse, 221
with conventional therapies, 124	metabolism of, 229-233, 230t

Persecutory delusions, defined, 23t	Positive and Negative Syndrome Scale (PANSS)
Perseveration, in thought disorder, 24t	comparison of SGAD efficacy by, 97
Personality disorder, comparative incidence of, in SGAD therapy, 99t	in assessment of schizophrenia, 43, 48
Pervasive developmental disorder	in evaluation of treatment in children, 216
exclusion of, in diagnosis of schizophrenia, 29t	Positive symptoms, with functional brain changes, 16t
in diagnosis of psychotic disorder, 30t	Positron emission tomography (PET)
PET. See Positron emission tomography.	in characterization of brain abnormality, 14
Pharmacodynamics	role of, in dopaminergic receptor-deficit hypothesis, 18
definition of, 227	Postural hypotension
in the elderly, 217-220	comparative incidence of, in SGAD therapy, 99t
Pharmacokinetics	with olanzapine therapy, 74-75t
definition of, 227	with quetiapine, 80t
in the elderly, 217-220	Posturing, in assessment of psychopathology, 45t
Pharyngitis	Prandin. See <i>Repaglinide</i> .
with olanzapine therapy, 74-75t	antidiabetic mechanism of, 164-165t
with risperidone, 84t	Precose. See Acarbose.
Phencyclidine (PCP)	Prefrontal cortex
role of, in modeling schizophrenia, 18	impact of functional changes in, 16t
potential benefits of, in schizophrenia, 239	role in effect of antipsychotic drugs, 16, 17
Phenobarbital	Pregnancy, management of schizophrenia during, 224-225
association with aggressive behavior, 172t	Prenatal environment, role of, in genesis of psychotic disease, 20
effect of, on metabolism of antipsychotic drugs, 231t	Prevalence, in epidemiology of schizophrenia, 14t
Phenothiazines	Priapism, with risperidone, 107
as subclass of antipsychotic medication, 116, 118-119	Prodromal effects, of conventional antipsychotic therapy, 127
chemical distinctions among, 115-116, 118-119	Prodromal phase, characteristics of, 13
in pregnancy/lactation, 225	Prognosis, 27
lipid changes with, 163, 165	factors affecting, 30, 30t, 241-242
Phenteramine, use of, in patients on antipsychotic drugs, 155	impact of therapeutic advances on, 39
Phenylpropanolamine, association with aggressive behavior, 172t	Prolactin changes
Phenytoin	comparative incidence of, in SGADs, 100t, 106-107
effect of, on metabolism of antipsychotic drugs, 231t	mechanism of, in antipsychotic therapy, 103, 106, 106t
in prevention of seizure with clozapine therapy, 70	with paliperidone ER, 76
Physiologic changes, in responsive vs resistant schizophrenia, 199	with risperidone, 83
Pimozide	Prolactin concentrations, effect of antipsychotic drugs on, 18
chemical structure of, 118-119	Prolixen. See also <i>Fluphenazine</i> .
contraindicated with ziprasidone, 89, 232	in conventional antipsychotic therapy, 36t
dosing guidelines for, 120-121t	Protease inhibitors, effect of, on metabolism of antipsychotic drugs, 231t
in combination therapy for treatment-resistant schizophrenia, 207t	Pruritus, with hepatic changes in antipsychotic therapy, 128
in conventional antipsychotic therapy, 36t	Psychiatric emergency
Pioglitazone (Actos), antidiabetic mechanism of, 164-165t	aggressive behavior in, 172-173
Piperazines	management goals of, 167
chemical structure of, 118-119	SGADs in, 169-171, 171-172t
in phenothiazine subtyping, 115	suicidal behavior in, 173-174, 175t
Piperidines	Psychomotor symptoms, with functional brain changes, 16t
chemical structure of, 118-119	Psychopathology, in relapse, 241
in phenothiazine subtyping, 115	Psychosis
Pituitary, role in effect of antipsychotic drugs, 16, 17	concept of disease in, 13
Polypharmacy, in the elderly, 217-220	effect of antipsychotic drugs on, 18
Portal blood system, role in effect of antipsychotic drugs, 16, 17	historical perspective, 13
1 orași oroșa opisioni, rote în errect or unupoyenoue urugo, 10, 17	Psychosocial function in symptomatology of schizophrenia 13

Psychosocial intervention, as nonpharmacologic therapy, 39, 42	Raclopride, role of, in dopaminergic receptor-deficit hypothesis, 18
Psychotic symptoms, 22, 23t	Rash
Psychotomimetic drugs, role of, in modeling schizophrenia, 18	comparative incidence of, in SGAD therapy, 99t
Putamen, role in effect of antipsychotic drugs, 16, 17	with clozapine, 67t
	with quetiapine, 80t
Quality of life	with risperidone, 84t
factors in schizophrenia, 243	with ziprasidone, 88t
with SGADs vs conventional therapy, 244	Rating scales, 42-48, 44-47t
Quetiapine	Receptor affinities, of SGADs, 95t
adverse effects, 79-82, 80t	Receptor antagonism, associated adverse effects of, 122t
as first-line therapy, by co-morbidity, 40-41t	Receptor-binding profile, of quetiapine, 93
chemical structure of, 55	Relapse
comparative efficacy of, 94-97, 96t	factors in, 241
comparative incidence of extrapyramidal side effects in, 98, 102, 104	rates, 241
comparative side effects of, 98, 99t, 100t	Relationships, as factor in relapse, 241
diabetic ketoacidosis in, 161	Remission
discontinuation rates, in CATIE, 179	Schizophrenic Working Group consensus on, 184, 185-186t
dopamine receptor affinity of, 101	SGAD vs conventional therapy for, 185
dosing information for, 56-57t, 78-79	Renal disease, in diagnosis of psychotic disorder, 30t
effect of, on glucose homeostasis, 162	Renal insufficiency, in predisposition to QTc prolongation, 110
effect of, on QTc interval, 111	Renal metabolism
effect on cognition by, 237	excretion by, 233
factors affecting absorption, 228	of paliperidone ER, 76
history, 77	Repaglinide (Prandin), antidiabetic mechanism of, 164-165t
in adolescents and children with schizophrenia, 214, 215-216	Residual type, in categorization of schizophrenia, 27
in CAFE study, 97	Respiratory tract infection
in CATE study, 77	comparative incidence of, in SGAD therapy, 99t
in combination therapy for treatment-resistant schizophrenia, 207t	with ziprasidone, 88t
in first-episode schizophrenia, 97	Restlessness
in SGAD therapy, 37t	in rebound phenomenon, 63
in the elderly, 218	with clozapine, 66t
in treatment algorithm, 38	RGS4, in vulnerability for schizophrenia, 21t
in treatment of aggressive behavior, 173	Rheumatic fever, in predisposition to QTc prolongation, 110
	Rhinitis
in treatment-resistant schizophrenia, 204 mechanism of action, 77	
metabolism of, 229-233, 230t	comparative incidence of, in SGAD therapy, 99t with aripiprazole, 61t
pharmacokinetics,79	* * '
*	with olanzapine therapy, 74-75t
profiles for receptor binding, 54 receptor affinity of, 95t	with quetiapine, 80t with risperidone, 84t
1	*
sedative effect, in clinical trials, 112	with ziprasidone, 88t
studies of, 77-78	Rifampin, effect of, on metabolism of antipsychotic drugs, 231t
vs risperidone in treatment-resistant schizophrenia, 201	Rigidity
weight gain with, 150, 151, 152t Ouinidine	in Levenson's diagnostic criteria for NMS, 131t
	with clozapine, 67t
contraindicated with ziprasidone, 89, 232	Rimonabant, use of, in patients on antipsychotic drugs, 156
effect of, on metabolism of antipsychotic drugs, 231t	Risk factors, for development of schizophrenia, 20
QTc changes, comparative incidence of, in SGADs, 100t	Risperdal. See also <i>Risperidone</i> .
	adverse effects, 83-86, 84t
	dosing information for, 56-57t, 82-83

history, 82

-	
и	
п	

Risperdal (continued)	Risperidone, long-acting (continued)
in management of acute psychosis, 170-171t	preparation and use of, 194t
in SGAD therapy, 37t	studies of, 195
long-acting	mechanism of action, 82
adverse effects of, 193-194	metabolism of, 229-233, 230t
dosing guidelines for, 193	pharmacokinetics, 83
pharmacology and pharmacokinetics of long-acting preparations	potential benefits of new forms of, 182
of. 191	potential cost benefits of, 246
preparation and use of, 194t	profiles for receptor binding, 54
studies of, 195	receptor affinity of, 95t
mechanism of action, 82	relapse with, vs conventional therapy, 242
pharmacokinetics, 83	remission rates with, 185
*	sedative effect, in clinical trials, 112
Risperidone	
adverse effects, 83-86, 84t	studies of, 82
as first-line therapy, by co-morbidity, 40-41t	vs haloperidol, 82
as first-line therapy in elderly patients, 218	Marder and Meibach, US-Canada joint, 82
with Parkinson's disease, Alzheimer's disease, 219	weight gain with, 150, 151, 152t
chemical structure of, 55	in CATIE trial, 153t
comparative efficacy of, 94-97, 96t	Rivastigmine, potential benefits of, in schizophrenia, 239
comparative incidence of extrapyramidal side effects in, 98, 102, 104	Romano-Ward syndrome, in predisposition to QTc prolongation, 110
comparative side effects of, 98, 99t, 100t	Rosiglitazone (Avandia), antidiabetic mechanism of, 164-165t
diabetic ketoacidosis in, 161	
discontinuation rates, in CATIE, 179	Salivation
dopamine receptor affinity of, 101	with clozapine, 66t
dosing information for, 56-57t, 82-83	with risperidone, 84t
effect of, on glucose homeostasis, 162	SAS See Simpson-Angus Scale.
effect of, on QTc interval, 111	Schizoaffective disorder
effect on cognition by, 237	exclusion of, in diagnosis of schizophrenia, 29t
FDA approval of, in prevention of relapse, 178	in diagnosis of psychotic disorder, 30t
history, 82	SGAD therapy in, 222-223
in adolescents and children with schizophrenia, 214	treatment of, with antipsychotic drugs, 33
in CAFE study, 97	Schizophrenia
in CATIE trial, 94	defined, Diagnostic and Statistical Manual of Mental Disorders,
in combination therapy for treatment-resistant schizophrenia, 206, 207t	4th edition, 26
in first-episode schizophrenia, 97	treatment of, with antipsychotic drugs, 33
in management of acute psychosis, 170-171t	Schizophrenic Working Group, consensus on remission, 184, 185-186t
in pregnancy/lactation, 225	Second-generation antipsychotic drugs (SGADs). See also specific drugs.
in schizophrenia with substance abuse, 221	available agents for, 37t
in SGAD therapy, 37t	chemical structure of, 55
in treatment algorithm, 38	comparative side effects of, 98, 99t
· · · · · · · · · · · · · · · · · · ·	* '
in treatment of aggressive behavior, 173	depot preparations of, 191-195
in treatment-resistant schizophrenia, 201, 204	distinction vs conventional therapy, 34, 96-97
vs haloperidol, 201	dosing information for, 56-57t
lipid changes with, 165	effect of receptor affinity with weight gain in, 149
long-acting	effect on cognition by, 237
adverse effects of, 193	factors affecting absorption, 227-228
dosing guidelines for, 193	future directions in, 249
pharmacology and pharmacokinetics of long-acting preparations	in adolescents and children with schizophrenia, 214
of, 191	in management of acute psychosis, 170-171t
potential benefits of in young patients, 214, 215-216	in management of aggressive behavior, 172-173

SGADs (continued)	Serotonin receptor binding, role of, in antipsychotic drug activity, 19, 53
in pregnancy/lactation, 225	Sertindole
in prevention of relapse, 178	in new developments for treating schizophrenia, 250
in schizoaffective disorder, 222	weight gain with, 151
in the elderly, 217-220	Sertraline
in therapy for treatment-resistant schizophrenia, 198, 199, 200-208	effect of, on metabolism of antipsychotic drugs, 231t
in treatment algorithm, 38	in schizoaffective disorder, 223
incidence of extrapyramidal effects with, vs conventional	in schizophrenia with depression, 223
therapy, 98, 102	Sexual dysfunction
introduced for antipsychotic use, 33-34	treatment options for, 109t
mechanism of action, 53	with antipsychotic therapy, 129
metabolism and distribution of, 229-233, 230t	in CATIE study, 108
potential benefits of, 31	in SGAD therapy, 107-109
profiles for receptor binding, 54	mechanism of, in antipsychotic therapy, 103, 106, 106t
risk of diabetes with, 159	treatment considerations in, 40-41t
serotonin-to-dopamine binding ratios of, 19	SGADs. See Second-generation antipsychotic drugs.
vs conventional therapy in treatment adherence, 242-243	Sibutramine, use of, in patients on antipsychotic drugs, 155
vs conventional treatment of psychiatric emergencies, 168	Sildenafil, in treatment of sexual disturbance in antipsychotic
Sedation	therapy, 109t
by receptor antagonism, 122, 122t	Simpson-Angus Scale (SAS), in evaluation of antipsychotic side
comparative incidence of, in SGAD therapy, 99t	effects, 48, 49
comparative incidence of, in SGADs, 100t	Single photon emission computed tomography (SPECT), in
comparative, with conventional antipsychotic therapy, 122, 123t	characterization of brain abnormality, 14
in CATIE trial, 112	Sinusitis, with risperidone, 84t
in sexual dysfunction, 106t	Sleep disturbance
with clozapine, 67, 67t	in symptomatology of schizophrenia, 25
Seizures	with clozapine, 66t
comparative incidence of, in SGADs, 100t	Social aptitude, impairment of, 25t
in treatment with conventional antipsychotics, 125	Social dysfunction
preventative measures for, 70	cognitive impairment with, 235
with clozapine, 67t, 69-70	in differential diagnosis, 28t
with ziprasidone, 90	Social skills training (SST), in psychosocial rehabilitation, 42
Self-care, in symptomatology of schizophrenia, 25	Somatic delusions, defined, 23t
Serentil. See also Mesoridazine.	Somatic disturbance, in assessment of psychopathology, 44t
in conventional antipsychotic therapy, 36t	Somnolence
Seroquel. See also <i>Quetiapine</i> .	in antipsychotic-treated children, 215
adverse effects, 79-82, 80t	with aripiprazole, 61t
dosing information for, 56-57t, 78-79	with long-acting risperidone, 193-194
history, 77	with olanzapine therapy, 74-75t
in SGAD therapy, 37t	with paliperidone ER, 78t
mechanism of action, 77	with quetiapine, 80t
pharmacokinetics,79	with risperidone, 84t
studies of, 77-78	with ziprasidone, 88t
Serotonin hypothesis of psychosis, 19	Sotalol, contraindicated with ziprasidone, 89, 232
Serotonin receptor antagonism	Sparfloxacin, contraindicated with ziprasidone, 89
adverse effects of, 122t	SPECT. See Single photon emission computed tomography.
effect of, on satiety, 148	SST. See Social skills training.
in management of aggressive behavior, 172	Stabilization therapy. See Maintenance therapy.
in sexual dysfunction, 106t	Starlix. See Nateglinide.
role of, in schizophrenia, 19	antidiabetic mechanism of, 164-165t

Stelazine. See also <i>Trifluoperazine</i> .	Terazosin, in hypersalivation, 68t
in conventional antipsychotic therapy, 36t	Texas Implementation of Medication Algorithm, 38
Strauss, characterization of schizophrenia by, 21	guidelines for combination therapy in treatment-resistant
Structural abnormality, 15t	schizophrenia, 206, 207t
Substance abuse	Texas Medication Algorithm Project (TMAP)
as factor in relapse, 241	treatment algorithm from, 38
with schizophrenia, treatment of, 220-222	treatment recommendations of, 35, 38
Substantia nigra, role in effect of antipsychotic drugs, 16, 17	Thiazolidinediones, antidiabetic mechanism of, 164-165t
Sugar-free gum, in hypersalivation, 68t	Thioridazine
Suicidal tendency, treatment considerations in, 40-41t	adverse effects with, 123t
Suicide	anticholinergic effects of, 125
incidence of, in schizophrenia, 173	chemical structure of, 118-119
increased risk, with conventional therapy, 174	contraindicated with ziprasidone, 89, 232
risk factors for, 174, 175t	dopamine receptor affinity of, 101
risk of, 27	dosing guidelines for, 120-121t
Sulfonylureas, antidiabetic mechanism of, 164-165t	effect of, on QTc interval, 111
Superior temporal cortex, role in effect of antipsychotic drugs, 16, 17	effect on cognition by, 237
Suspiciousness, in assessment of psychopathology, 46t	in conventional antipsychotic therapy, 36t
Sweating	introduced for antipsychotic use, 33
comparative incidence of, in SGAD therapy, 99t	metabolism, 230t
with clozapine, 66t	orthostatic hypotension with, 124
Switching drug therapies	weight gain with, 149, 151
benefits of, in SGAD therapy, 179	Thiothixene
rationale for, 178-179	adverse effects with, 123t
strategies for, 180t	chemical structure of, 118-119
Symptoms of schizophrenia, 13, 25, 25t	dosing guidelines for, 120-121t
responsiveness to treatment, 31	in conventional antipsychotic therapy, 36t
Syncope	introduced for antipsychotic use, 33
comparative incidence of, in SGAD therapy, 99t	Thioxanthenes
with clozapine, 66t	as subclass of antipsychotic medication, 116, 118-119
with olanzapine, 73	chemical structure of, 118-119
	Thorazine. See also <i>Chlorpromazine</i> .
Tachycardia	in conventional antipsychotic therapy, 36t
comparative incidence of, in SGAD therapy, 99t	Thought blocking
in Levenson's diagnostic criteria for NMS, 131t	Thought broadcasting, defined, 23t
with clozapine, 66t, 69	Thought disorder
with olanzapine, 73, 74-75t	characteristics of, 22, 24t
with paliperidone ER, 77, 78t	in assessment of psychopathology, 47t
with quetiapine, 80t	with functional brain changes, 16t
with risperidone, 84t	Thought insertion, defined, 23t
with ziprasidone, 88t	TIMA. See Texas Implementation of Medication Algorithm.
Tangentiality, in thought disorder, 24t	TMAP. See Texas Medication Algorithm Project.
Tardive dyskinesia	Toothache, with risperidone, 84t
in schizophrenia with substance abuse, 220-222	Topiramate
in sexual dysfunction, 106t	in combination therapy for treatment-resistant schizophrenia, 207t
susceptibility to, of elderly patients, 218	use of, in patients on antipsychotic drugs, 155
treatment considerations in, 40-41t	Torsades de pointes
Tegmentum, role in effect of antipsychotic drugs, 16, 17	with clozapine therapy, 69
Temporal cortex, impact of functional changes in, 16t	with thioridazine, 124
Tension, in assessment of psychopathology, 45t	Traditional antipsychotic drugs. See Conventional therapy.

Transaminase elevations	Vascular dementia, psychotic symptoms with, in the elderly, 217
with olanzapine, 73	Vasoconstriction
with quetiapine, 81	management of, 124
Transmitter disturbance, role of, in schizophrenia, 18-19	with conventional therapies, 124
Treatment goals, 35, 39	Ventricular dilation, associated with schizophrenia, 15t
Treatment options. See also Conventional therapy, Second-generation	Ventricular function, effects of antipsychotic drugs on,109-110, 111
antipsychotic drugs.	VEOS. See Very-early-onset schizophrenia.
guidelines of the American Psychiatric Association, 35	Verapamil, effect of, on metabolism of antipsychotic drugs, 231t
guidelines of the TMAP, 35	Vertigo, comparative incidence of, in SGAD therapy, 99t
historical approach, 33-34	Very-early-onset schizophrenia, 214
Treatment-resistant schizophrenia	Visual disturbance
clozapine in, 197	comparative incidence of, in SGAD therapy, 99t
combination therapy for, 205-208	with clozapine, 66t
criteria for diagnosis of, 198-199, 199t	with risperidone, 84t
management guidelines for, 210-211t	Vocational support
monotherapy for, 200-205	in psychosocial rehabilitation, 42
vs chronicity, 197-198	Vomiting
Tremor	with aripiprazole, 61t
with aripiprazole, 61t	with clozapine, 67t
with clozapine, 66t	with clozapine, 677 with olanzapine therapy, 74-75t
with olanzapine therapy, 74-75t	with risperidone, 84t
Tricyclic antidepressants	with rispertuone, 84t
association with aggressive behavior, 172t	Weight gain
effect of, on metabolism of antipsychotic drugs, 231t	clinical consequences of, 147t
Trifluoperazine	comparative incidence of, in SGAD therapy, 99t, 100t
adverse effects with, 123t	in antipsychotic-treated children, 215
anticholinergic effects of, 125	in sexual dysfunction, 106t
dosing guidelines for, 120-121t	
in conventional antipsychotic therapy, 36t	management of, in treated patients, 152-156, 154t
Trilafon. See also <i>Perphenazine</i> .	mechanism of, 148-149
in conventional antipsychotic therapy, 36t	minimal with paliperidone ER, 76
Tuberoinfundibular tract	with antipsychotic medications, 149-152, 150, 151, 153t
effect of antipsychotic drugs on, 18	with antipsychotic therapy, 128
role in effect of antipsychotic drugs, 16, 17	with clozapine, 66t, 70
role in effect of antipsychotic drugs, 10, 17	with long-acting risperidone, 193-194
Uncooperativeness, in assessment of psychopathology, 47t	with olanzapine, 73, 74-74t
Undifferentiated type, in categorization of schizophrenia, 27	with quetiapine, 80t, 81
Upper respiratory infection, with risperidone, 84t	with risperidone, 85-86
Urecholine. See Bethanechol.	Word salad, defined, in thought disorder, 24t
Urinary incontinence	** 1.10
with clozapine, 67t, 71	Xenical See <i>Orlistat</i> .
with clozapine, 67t, 71 with olanzapine therapy, 74-75t	Xerolube, in treatment of anticholinergic effects of conventional
Urinary tract infection, with olanzapine therapy, 74-75t	antipsychotics, 125
Offinary tract infection, with offinzapine therapy, 74-75t	m - 11
V-AKT murine thymoma viral oncogene homolog 1, in vulnerability	Ziprasidone
for schizophrenia, 21t	adverse effects, 87-90, 88t
Valproate	as first-line therapy, by co-morbidity, 40-41t
in combination therapy for treatment-resistant schizophrenia, 207t	chemical structure of, 55
in prevention of seizure with clozapine therapy, 70	comparative efficacy of, 94-97, 96t
in schizoaffective disorder, 223	comparative incidence of extrapyramidal side effects in, 98, 102, 104
iii scinzoanective disoluci, 223	comparative side effects of, 98, 99t, 100t

in schizophrenia with depression, 223

```
Ziprasidone (continued)
 discontinuation rates, in CATIE, 179
 dopamine receptor affinity of, 101
 dosing information for, 56-57t, 87
 drug interactions, contraindications with, 232-233, 232t
 effect of, on glucose homeostasis, 162
 effect of, on QTc interval, 110-112, 111
 effect on cognition by, 237
 efficacy, 86-87
 factors affecting absorption, 228
 history, 86
 in adolescents and children with schizophrenia, 214, 215-216
 in CATIE trial, 94
 in combination therapy for treatment-resistant schizophrenia, 207t
 in long-term maintenance therapy, 178
 in management of acute psychosis, 170-171t
 in SGAD therapy, 37t
 in treatment algorithm, 38
 in treatment-resistant schizophrenia, 204
 in young patients, 97
 lipid changes with, 165
 mechanism of action, 86
 metabolism of, 229-233, 230t, 233
 pharmacokinetics, 87
 profiles for receptor binding, 54
 receptor affinity of, 95t
 sedative effect, in CATIE trial, 112
 weight gain with, 150, 151, 152t
  in CATIE trial, 153t
Zotepine, in new developments for treating schizophrenia, 250
Zyprexa. See also Olanzapine.
 adverse effects of, 73, 74t
 dosing information for, 56-57t, 72
 efficacy, 71
 history of, 71
 in management of acute psychosis, 170-171t
 in SGAD therapy, 37t
 mechanism of action, 71
 pharmacokinetics, 72
 vs haloperidol, 71-72
 studies of, 86-87
  vs haloperidol, 87
```