

Table 1. Demographic and Admission and Discharge Data for the Patients												
Patients	Antipsychotic Medication 1 (APM-1)				Antipsychotic Medication 2 (APM-2)				Concomitant Medications	Hospital Duration (months)	Postdose Adjustment Changes in Response and Adverse Effects	Time to Discharge After APM Dose Change
	APM-1 Admission Dose	Drug and Prolactin Levels (ng/mL)	APM-1 Discharge Dose	Plasma and Prolactin Levels (ng/mL)	APM-2 Admission Dose	Drug and Prolactin Levels (ng/mL)	APM-2 Discharge Dose	Plasma and Prolactin Levels (ng/mL)				
Patient 1: age 40 y, Asian <u>Diagnosis:</u> amphetamine use disorder in early sustained remission	Olanzapine 50 mg/d	Drug: NA Prolactin: NA	Olanzapine 20 mg/d	Plasma: NA Prolactin: NA	Risperidone 1 mg/d	Drug: NA Prolactin: NA	Risperidone gradually discontinued	Plasma: NA Prolactin: NA	None	9.5	Less negative symptoms; improved cognition with conceptual flexibility; improved hygiene and cognition; brighter affect; decreased pseudoparkinsonion symptoms	4 months
Patient 2: age 41 y, Black <u>Diagnosis:</u> schizophrenia	Risperidone 6 mg/d	Drug: NA Prolactin: 36.9	Risperidone 3 mg/d	Plasma: NA Prolactin: NA	Loxapine 100 mg/d	Drug: NA Prolactin: NA	Loxapine 100 mg/d	Plasma: NA Prolactin: NA	Metoprolol 50 mg twice/d; docusate sodium 250 mg at bedtime; chlorthalidone 25 mg in the morning for hypertension	10	Improved psychosis; improved attention and concentration; reduced tremors, sedation, muscle stiffness; increased social activities; more spontaneous in responses	2 months
Patient 3: age 30 y, Black <u>Diagnosis:</u> schizophrenia, malingering	Clozapine 550 mg/d	Drug: clozapine = 321 norclozapine = 133 Prolactin: NA	Clozapine 600 mg/d	Plasma: clozapine = 575 norclozapine = 220 Prolactin: NA	...	...	...	...	Olanzapine 5 mg PRN for agitation; docusate sodium 250 mg twice/d for constipation; bisacodyl 10 mg/d PRN; magesium citrate 1 bottle every 3 d PRN; acetaminophen 650 mg every 6 hours PRN for pain	19	Slight improvement in social activities; brighter affect; no change in adverse effects	4 months
Patient 4: age 30 y, White <u>Diagnosis:</u> major depressive disorder, recurrent, severe, with psychosis; alcohol use disorder in early sustained remission	Olanzapine 10 mg /d	Drug: NA Prolactin: NA	Olanzapine 30 mg/d	Plasma: NA Prolactin: NA	...	...	...	...	Mirtazapine 30 mg oral at bedtime; escitalopram 20 mg oral at bedtime; docusate sodium 250 mg oral 2 times/d; omega 3 fatty acids 1 capsule oral 2 times/d	10	Significantly less depression and comorbid obsessive-compulsive symptoms; no change in adverse effects	4 months
Patient 5: age 35 y, White <u>Diagnosis:</u> unspecified schizophrenia	Olanzapine 60 mg oral at bedtime	Drug: 257 Prolactin: patient refused	Olanzapine 30 mg oral at bedtime	Plasma: patient refused Prolactin: patient refused	Fluphenazine 15 mg 2 times/d	Drug: NA Prolactin: patient refused	Gradually discontinued in 6 wk	Plasma: NA Prolactin: NA	Diphenhydramine 50 mg every 12 hours PRN for EPS; fluphenazine 10 mg every 12 hours PRN for agitation; zolpidem 5 mg at bedtime PRN for insomnia	18	Improved psychosis; improved attention and concentration; no dryness of mouth; less dizziness; less confusion	0.75 months
Patient 6: age 29 y, White <u>Diagnosis:</u> unspecified schizophrenia; alcohol use disorder in early sustained remission	Olanzapine 30 mg oral 2 times/d	Drug: NA Prolactin: NA	Olanzapine 20 mg oral 2 times/d	Plasma: NA Prolactin: NA	...	...	...	...	Divalproex sodium 1,000 mg oral 2 times/d; methotrexate 15 mg/wk for arthritis	10	Improved psychosis; reduced sedation; less dryness of mouth; improved social activities; improved memory; brighter affect	2 months
Patient 7: age 24 y, Black <u>Diagnosis:</u> schizophrenia	Olanzapine 40 mg oral at bedtime	Drug: 109 Prolactin: 108	Olanzapine 20 mg oral at bedtime	Plasma: NA Prolactin: NA	Risperidone 7 mg/d oral	Drug: risperidone/ paliperidone lithium = 17.3/48.1 Prolactin: 108	Risperidone 4 mg/d oral	Plasma: NA Prolactin: NA	Divalproex sodium 500 mg oral at bedtime	6	Reduced psychosis; no suicidality; improved sleep and appetite; improved short-term memory; improved psychosis	2 months
Patient 8: age 33 y, Hispanic <u>Diagnosis:</u> bipolar I disorder; amphetamine, alcohol, and cannabis use disorders, all in early sustained remission	Risperidone 4 mg/d oral	Drug: NA Prolactin: 42.2	Risperidone 1.5 mg/d oral	Plasma: NA Prolactin: NA	...	...	...	...	Trazodone 100 mg oral at bedtime; levothyroxine 50 mcg oral every morning; lithium 450 mg oral 2 times/d	6	Reduced behavioral disruption; reduced psychosis; less stiffness and rigidity; less dizziness; brighter affect	2 months
Patient 9: age 35 y, Black <u>Diagnosis:</u> schizophrenia	Olanzapine 30 mg/d	Drug: NA Prolactin: NA	Olanzapine 30 mg/d	Plasma: NA Prolactin: NA	...	...	...	...	Diphenhydramine 50 mg oral at bedtime	5	No medication changes, took time to stabilize and become competent for discharge	...
Patient 10: age 38 y, White <u>Diagnosis:</u> unspecified schizophrenia; amphetamine use disorder in early sustained remission	Olanzapine 65 mg oral at bedtime	Drug: NA Prolactin: NA	Olanzapine 60 mg oral at bedtime	Plasma: NA Prolactin: NA	...	...	...	...	Melatonin 5 mg oral PRN for insomnia; fluphenazine 5 mg oral PRN every 8 hours; docusate sodium 250 mg oral 2 times/d; omeprazole 20 mg oral every morning	8	Longer time to respond; improved psychosis; no major change in adverse effects; reduced need for PRN fluphenazine	2 months
Patient 11: age 42 y, Hispanic <u>Diagnosis:</u> schizoaffective disorder, bipolar	Fluphenazine decanoate 100 mg IM every Friday	Drug: 5.1 (reference range, 1–10) Prolactin: NA	Fluphenazine decanoate 100 mg IM every other Friday	Plasma: NA Prolactin: NA	Ziprasidone 80 mg oral 2 times/d with meals	Drug: NA Prolactin: NA	Ziprasidone 80 mg oral 2 times/d with meals	Plasma: NA Prolactin: NA	Levomefolate 15 mg oral every morning	10	Reduced tremors; less muscle stiffness; less sedation; brighter affect; more responsive with better attention and concentration; increase in social activities	2 months
Patient 12: age 39 y, White <u>Diagnosis:</u> unspecified schizophrenia; cannabis and alcohol use disorders, both in early sustained remission; epilepsy, unspecified	Olanzapine 50 mg oral at bedtime	Drug: 227 Prolactin: NA	Olanzapine 20 mg oral at bedtime	Plasma: 108 Prolactin: NA	...	...	...	...	Mirtazapine 45 mg oral at bedtime; levetiracetam 1,000 mg oral twice/d; trazodone 50 mg oral at bedtime; omeprazole 20 mg oral at bedtime	24	Less sedation; less dryness of mouth; less constipation; tachycardia improved; no significant change in psychosis	3 months
Patient 13: age 34 y, White <u>Diagnosis:</u> schizophrenia	Paliperidone palmitate 117 mg IM once/month	Drug: NA Prolactin: NA	Paliperidone palmitate 117 mg IM once/month	Plasma: NA Prolactin: NA	...	...	...	...	Omega 3 fatty acids 2 capsules 2 times/d	8	No change in adverse effects; psychosis improved with time with no dose change in the long-acting injectable	...
Patient 14: age 39 y, Hispanic <u>Diagnosis:</u> unspecified schizophrenia	Haloperidol decanoate IM 200 mg every other Friday	Drug: 25 Prolactin: 52.9	Haloperidol decanoate IM 150 mg every other Friday	Plasma: NA Prolactin: NA	Olanzapine 40 mg/d	Drug: 247 Prolactin: 52.9	Olanzapine gradually discontinued	Plasma: NA Prolactin: NA	Divalproex sodium extended release 500 mg oral at bedtime	11	Improved attention; less responsive to internal stimuli; less sedated; less dryness of mouth; brighter affect; better hygiene; less drooling	3 months
Patient 15: age 39 y, Asian <u>Diagnosis:</u> schizophrenia; amphetamine, alcohol, and cannabis use disorders, all in early sustained remission	Haloperidol decanoate IM 200 mg every 4th Friday	Drug: NA Prolactin: NA	Haloperidol decanoate IM 200 mg every 4th Friday	Plasma: NA Prolactin: NA	Olanzapine 10 mg oral at bedtime	Drug: NA Prolactin: NA	Olanzapine 10 mg oral at bedtime	Plasma: NA Prolactin: NA	Mirtazapine 15 mg oral at bedtime	6	No dose changes were made, patient gradually became competent; no adverse effects recorded	...
Patient 16: age 27 y, White <u>Diagnosis:</u> schizophrenia; cocaine, opioid, and alcohol use disorders, all in early sustained remission	Ziprasidone 120 mg oral twice/d	Drug: NA Prolactin: NA	Ziprasidone 120 mg oral 2 times/d	Plasma: NA Prolactin: NA	...	...	...	...	Buspirone 20 mg oral 2 times/d; lithium 600 mg/d; melatonin 5 mg oral at bedtime	5	No dosing changes, except lithium reduced; less sedation; more socially active; less tremors	NA
Patient 17: age 36 y, White <u>Diagnosis:</u> unspecified schizophrenia; alcohol use disorder in early sustained remission	Olanzapine 40 mg oral at bedtime	Drug: NA Prolactin: NA	Olanzapine 20 mg oral at bedtime	Plasma: NA Prolactin: NA	...	...	...	...	Olanzapine 10 mg oral PRN	9	Improved psychosis; less sedation; more active; less dryness of mouth; less constipation and reduced use of PRN laxative	2 months
Patient 18: age 28 y, Hispanic <u>Diagnosis:</u> unspecified schizophrenia; amphetamine and cocaine use disorder in early sustained remission	Olanzapine 40 mg oral at bedtime	Drug: NA Prolactin: NA	Olanzapine 40 mg oral at bedtime	Plasma: NA Prolactin: NA	...	...	...	...	Divalproex sodium 500 mg oral every morning and 1,000 mg oral at bedtime; citalopram 40 mg oral every morning	10	No dose change; citalopram optimized; more socially active; slow reduction in psychosis	NA
Patient 19: age 29 y, Hispanic <u>Diagnosis:</u> unspecified schizophrenia	Olanzapine 60 mg/d	Drug: NA Prolactin: 79	Olanzapine 40 mg/d	Plasma: NA Prolactin: NA	Risperidone 6 mg/d	Drug: NA Prolactin: 79	Risperidone gradually discontinued	Plasma: 66.5 (on 2 mg of risperidone) Prolactin: NA	Sertraline 200 mg/d oral; hydroxyzine 25 mg oral at bedtime	10	Improved social activities; improved psychosis; better sleep; decreased sedation, tremors, and dryness of mouth	1.5 months
Patient 20: age 32 y, Asian <u>Diagnosis:</u> malingering; schizophrenia by history	Olanzapine 60 mg/d	Drug: 86.8 Prolactin: 50	Olanzapine 20 mg/d	Plasma: NA Prolactin: NA	Haloperidol 25 mg/d	Drug: 39 Prolactin: 50	Haloperidol 25 mg/d	Plasma: 17 Prolactin: NA	Discontinued third antipsychotic, fluphenazine 5 mg/d	21	Brighter affect; less muscle stiffness; less pseudoparkinsonion symptoms; less fatigue; more socially active	3 months
Patient 21: age 26 y, Black <u>Diagnosis:</u> opioid use disorder in early remission; antisocial personality disorder	Olanzapine 30 mg/d	Drug: NA Prolactin: NA	Olanzapine discontinued	...	...	...	...	...	Mirtazapine 30 mg oral at bedtime; diphenhydramine 50 mg oral 2 times/d	8.5	Complete recovery from psychosis despite stopping olanzapine; all adverse effects disappeared	2 months
Patient 22: age 43 y, Hispanic <u>Diagnosis:</u> schizoaffective disorder, bipolar type	Olanzapine 40 mg/d	Drug: 60 Prolactin: NA	Olanzapine 20 mg oral at bedtime	Plasma: NA Prolactin: NA	...	...	...	...	Sitgliptin 100 mg oral every morning; metformin 1,000 mg oral 2 times/d	13	Increased cooperativeness; more physically active; pleasant interactions with staff and peers; no active psychosis; improved affective symptoms; improved sleep and appetite	3 months
Abbreviations: IM = intramuscular, NA = not available, PRN = as needed. Symbol: ... not applicable.												