

Supplemental Digital Content Table A:

Expanded psychoactive medications data administered by pharmaceutical class and level of admission cognitive function

Pharmaceutical class by mechanism	FIM Cognitive score at admission	N*	% ever rec'd†	% rec'd† first 2 days	% rec'd† last 2 days	% rec'd† first & last 2 days	% rec'd† 5+ days	mean # days (for those rec'd†)	median # days (for those rec'd†)	mean % stay (for those rec'd†)	median % stay (for those rec'd†)	% days PRN	% days Sched#	% days Unknown PRN/Sched#
Anxiolytics	Overall	2130	33	19	19	11	23	17	12	56	58	37	53	10
	Adm cog <=6	339	48	24	26	14	31	21	18	50	50	40	45	14
	Adm cog 7-10	374	44	23	26	12	32	19	14	53	52	37	55	7
	Adm cog 11-15	495	31	18	18	11	22	17	13	60	67	36	57	7
	Adm cog 16-20	408	28	20	17	13	20	13	9	62	73	33	56	11
	Adm cog >=21	504	20	13	12	7	14	12	10	60	65	39	50	11
Anxiolytics: GABA-A	Overall	2130	29	17	15	8	18	16	10	50	44	44	47	9
	Adm cog <=6	339	46	22	21	11	27	18	10	43	27	44	42	14
	Adm cog 7-10	374	39	22	20	9	26	18	13	50	47	44	49	7
	Adm cog 11-15	495	26	15	14	8	17	16	12	55	54	43	51	6
	Adm cog 16-20	408	24	17	12	9	15	11	8	52	43	43	48	9
	Adm cog >=21	504	17	12	9	6	11	11	7	55	51	46	45	9
Anxiolytics: H1	Overall	2130	>0	>0	>0	>0	>0	9	5	36	27	59	27	14
	Adm cog <=6	339	>0	>0	>0	>0	0	12	15	51	38	67	33	0
	Adm cog 7-10	374	1	>0	>0	0	0	16	3	26	7	60	40	0
	Adm cog 11-15	495	>0	0	0	0	0	2	2	8	5	100	0	0
	Adm cog 16-20	408	>0	>0	>0	>0	0	9	9	60	50	33	4	62
	Adm cog >=21	504	1	>0	>0	>0	0	7	6	42	32	40	44	17
Anxiolytics: Other	Overall	2130	7	3	6	2	6	21	17	68	77	2	85	13
	Adm cog <=6	339	9	3	6	2	9	26	25	63	68	3	78	19
	Adm cog 7-10	374	10	3	8	2	9	22	17	62	63	3	87	11
	Adm cog 11-15	495	8	4	6	3	7	22	15	71	82	0	92	8
	Adm cog 16-20	408	8	4	7	3	6	15	13	72	88	3	84	13
	Adm cog >=21	504	3	1	2	>0	3	20	17	85	84	0	85	15
	Overall	2130	47	35	39	28	43	23	17	81	100	6	76	19
	Adm cog <=6	339	50	32	40	25	48	35	28	76	93	8	71	21
	Adm cog 7-10	374	52	34	42	26	48	27	23	77	94	3	85	12
	Adm cog 11-15	495	46	34	39	28	44	22	18	83	100	4	80	16

Anticonvulsants	Adm cog 16-20	408	46	38	41	33	43	19	15	87	100	4	73	22
	Adm cog >=21	504	41	37	32	28	36	13	12	83	100	10	67	24
Anticonvulsants: Ca+ Channel Antagonist	Overall	2130	31	21	26	17	28	23	17	80	100	7	71	23
	Adm cog <=6	339	30	19	25	15	29	36	29	75	90	10	67	22
	Adm cog 7-10	374	34	20	26	14	31	28	23	73	82	4	81	14
	Adm cog 11-15	495	29	19	25	17	28	22	19	81	100	4	74	22
	Adm cog 16-20	408	31	24	29	21	29	19	15	87	100	5	69	26
	Adm cog >=21	504	29	24	25	20	25	13	12	85	100	10	61	29
Anticonvulsants: GABA-A (Agonist)	Overall	2130	>0	>0	>0	>0	0	14	14	46	43	0	100	0
	Adm cog <=6	339	>0	0	0	0	0	23	23	26	26	0	100	0
	Adm cog 7-10	374	>0	0	0	0	0	23	23	58	58	0	100	0
	Adm cog 11-15	495	>0	>0	>0	>0	0	5	5	71	71	0	100	0
	Adm cog >=21	504	>0	0	0	0	0	5	5	28	28	0	100	0
Anticonvulsants: Na+ Channel Antagonist	Overall	2130	25	17	18	12	22	21	16	73	91	5	82	13
	Adm cog <=6	339	31	15	22	10	30	29	24	66	76	5	73	22
	Adm cog 7-10	374	31	18	24	13	28	23	20	69	78	4	88	8
	Adm cog 11-15	495	24	17	18	13	22	21	17	77	97	5	89	5
	Adm cog 16-20	408	23	19	18	14	21	18	14	81	100	3	79	18
	Adm cog >=21	504	18	17	11	10	14	13	10	74	100	8	79	13
Anticonvulsants: Other	Overall	2130	>0	>0	>0	>0	0	27	26	80	100	33	67	0
	Adm cog 7-10	374	>0	>0	0	0	0	11	11	39	39	100	0	0
	Adm cog 11-15	495	>0	>0	>0	>0	0	44	44	100	100	0	100	0
	Adm cog 16-20	408	>0	>0	>0	>0	0	26	26	100	100	0	100	0
Antidepressants	Overall	2130	67	44	55	37	61	23	18	78	93	27	60	13
	Adm cog <=6	339	77	47	64	40	73	34	29	79	94	23	62	15
	Adm cog 7-10	374	76	48	63	39	72	26	22	78	90	25	65	10
	Adm cog 11-15	495	66	46	54	38	60	21	19	80	95	30	57	13
	Adm cog 16-20	408	69	49	58	42	62	17	14	78	95	28	57	15
	Adm cog >=21	504	53	35	41	28	42	15	12	74	90	30	57	13
Antidepressants: NDRI	Overall	2130	1	>0	1	>0	1	12	10	69	87	7	83	10
	Adm cog <=6	339	>0	>0	>0	>0	0	28	29	84	100	0	100	0
	Adm cog 7-10	374	1	>0	>0	>0	0	15	10	54	54	0	75	25
	Adm cog 11-15	495	1	>0	1	>0	1	11	9	58	40	0	86	14
	Adm cog 16-20	408	>0	>0	>0	>0	0	9	10	73	92	33	67	0
	Adm cog >=21	504	2	2	2	1	2	9	8	74	94	5	86	8

Antidepressants:NaSSA	Overall	2130	3	>0	3	>0	3	21	16	57	64	9	76	15
	Adm cog <=6	339	5	>0	4	>0	4	16	14	36	30	13	52	35
	Adm cog 7-10	374	5	1	4	>0	5	33	32	67	82	5	84	11
	Adm cog 11-15	495	2	>0	2	>0	2	19	16	57	62	8	83	8
	Adm cog 16-20	408	4	2	3	1	3	12	12	62	68	13	77	11
	Adm cog >=21	504	>0	>0	>0	>0	>0	22	20	84	86	0	100	0
Antidepressants: SARI	Overall	2130	53	35	36	25	45	20	16	70	83	39	50	11
	Adm cog <=6	339	63	40	42	30	57	30	26	73	90	31	58	11
	Adm cog 7-10	374	62	40	42	27	57	23	20	70	81	36	54	10
	Adm cog 11-15	495	54	36	37	27	47	19	17	72	89	41	49	10
	Adm cog 16-20	408	53	37	37	27	45	15	13	71	83	41	47	13
	Adm cog >=21	504	37	25	25	16	27	11	9	64	72	47	41	12
Antidepressants: SNRI	Overall	2130	5	2	4	2	4	19	16	67	73	4	79	17
	Adm cog <=6	339	4	1	4	1	4	26	24	59	50	10	69	21
	Adm cog 7-10	374	4	>0	4	>0	4	27	20	68	68	>0	89	11
	Adm cog 11-15	495	5	1	4	1	4	18	19	60	71	4	74	22
	Adm cog 16-20	408	6	3	5	3	5	14	13	74	81	2	86	12
	Adm cog >=21	504	4	2	4	1	4	13	10	71	81	5	75	20
Antidepressants: SSRI	Overall	2130	26	12	24	10	25	23	18	74	84	2	79	19
	Adm cog <=6	339	32	9	29	6	31	32	27	65	66	4	70	26
	Adm cog 7-10	374	31	13	29	11	29	26	22	70	77	2	83	15
	Adm cog 11-15	495	24	12	23	11	24	22	18	79	93	>0	80	19
	Adm cog 16-20	408	27	13	25	13	25	18	15	77	92	2	80	18
	Adm cog >=21	504	19	11	16	10	17	19	15	81	95	3	82	15
Antidepressants: TCA - secondary amines	Overall	2130	2	>0	>0	>0	2	21	13	55	55	7	76	18
	Adm cog <=6	339	3	0	1	0	2	22	23	54	55	5	53	42
	Adm cog 7-10	374	1	0	>0	0	0	18	16	41	36	0	100	0
	Adm cog 11-15	495	1	>0	>0	>0	1	21	12	60	67	0	86	14
	Adm cog 16-20	408	1	>0	>0	>0	1	6	7	47	45	4	66	30
	Adm cog >=21	504	2	>0	>0	>0	2	29	26	65	63	18	82	0
Antidepressants: TCA -	Overall	2130	3	>0	2	>0	3	16	14	62	67	5	72	23
	Adm cog <=6	339	4	>0	3	>0	4	20	17	53	54	0	73	27
	Adm cog 7-10	374	3	>0	2	>0	3	14	11	53	54	11	73	17
	Adm cog 11-15	495	2	>0	2	>0	2	13	10	55	55	8	58	33
	Adm cog 16-20	408	4	2	3	1	4	16	14	71	77	0	81	19

tertiary amines	Adm cog >=21	504	2	>0	2	>0	2	16	14	76	82	11	67	22
Antiparkinson	Overall	2130	25	11	20	8	23	25	21	73	83	3	83	14
	Adm cog <=6	339	53	24	40	17	49	30	26	70	79	4	84	12
	Adm cog 7-10	374	40	18	31	13	36	25	22	71	85	1	87	12
	Adm cog 11-15	495	21	8	19	7	20	24	19	78	86	2	82	15
	Adm cog 16-20	408	15	4	12	4	13	16	14	71	75	5	72	23
	Adm cog >=21	504	6	4	6	3	5	14	14	80	100	5	73	23
Antiparkinson: COMT Inhibitor	Overall	2130	>0	>0	>0	>0	0	23	23	100	100	4	96	0
	Adm cog <=6	339	>0	>0	>0	>0	0	23	23	100	100	4	96	0
Antiparkinson: DA Agonist	Overall	2130	9	4	7	2	9	25	21	71	81	>0	89	10
	Adm cog <=6	339	19	9	11	4	19	27	24	64	72	>0	86	13
	Adm cog 7-10	374	16	6	12	4	15	29	23	71	84	0	91	9
	Adm cog 11-15	495	9	3	7	2	8	24	19	79	84	0	97	3
	Adm cog 16-20	408	5	1	4	>0	4	14	11	68	75	0	80	20
	Adm cog >=21	504	2	1	2	1	2	16	14	93	100	0	89	11
Antiparkinson: MAO Inhibitor	Overall	2130	>0	>0	>0	>0	>0	20	16	59	49	>0	63	37
	Adm cog <=6	339	1	0	>0	0	0	24	25	25	25	0	25	75
	Adm cog 7-10	374	2	1	1	>0	1	13	10	49	33	2	84	14
	Adm cog 11-15	495	>0	>0	>0	>0	0	34	21	88	100	0	33	67
	Adm cog 16-20	408	>0	>0	>0	>0	0	11	14	70	100	0	67	33
	Adm cog >=21	504	>0	>0	>0	>0	0	25	25	100	100	0	100	0
Antiparkinson: NMDA Antagonist	Overall	2130	17	6	13	5	15	24	19	66	71	4	81	15
	Adm cog <=6	339	42	17	31	11	37	29	24	66	75	4	86	10
	Adm cog 7-10	374	25	10	19	7	22	22	18	64	66	2	85	13
	Adm cog 11-15	495	13	5	11	4	12	21	16	70	73	4	76	20
	Adm cog 16-20	408	9	2	6	2	8	16	12	65	64	8	69	24
	Adm cog >=21	504	4	2	4	1	3	11	12	67	65	7	64	29
	Overall	2130	1	>0	1	>0	1	27	20	74	100	3	84	13
	Adm cog <=6	339	2	1	1	>0	2	38	9	57	66	11	61	29
	Adm cog 7-10	374	3	>0	2	>0	3	25	19	70	70	>0	100	0
	Adm cog 11-15	495	1	>0	1	>0	1	23	24	77	100	0	100	0
	Adm cog 16-20	408	1	>0	1	>0	1	24	22	93	100	0	60	40

Antiparkinson : Other	Adm cog >=21	504	>0	>0	>0	>0	0	22	22	100	100	0	100	0
Antipsychotic	Overall	2130	25	16	15	10	21	20	15	65	75	23	62	15
	Adm cog <=6	339	38	18	23	10	34	27	20	57	55	29	49	22
	Adm cog 7-10	374	34	21	23	13	30	21	17	66	78	24	61	15
	Adm cog 11-15	495	28	21	18	13	23	18	15	71	89	18	74	8
	Adm cog 16-20	408	22	16	11	7	18	15	13	63	75	17	71	12
	Adm cog >=21	504	10	8	6	5	7	12	9	65	70	33	50	16
Antipsychotic: First generation/typical	Overall	2130	3	1	>0	>0	>0	7	1	21	7	47	39	14
	Adm cog <=6	339	3	2	>0	0	0	7	2	12	4	49	37	14
	Adm cog 7-10	374	3	1	>0	0	0	4	1	11	4	62	23	15
	Adm cog 11-15	495	3	2	1	>0	1	12	2	34	21	41	47	13
	Adm cog 16-20	408	2	>0	>0	>0	0	5	1	21	7	29	64	7
	Adm cog >=21	504	1	>0	>0	>0	0	5	1	28	10	49	30	21
Antipsychotic: Second generation/atypical	Overall	2130	24	15	15	9	21	20	15	67	78	22	63	15
	Adm cog <=6	339	37	16	22	9	33	27	20	58	56	29	48	23
	Adm cog 7-10	374	33	20	23	13	30	22	18	68	79	22	63	15
	Adm cog 11-15	495	26	19	17	13	22	18	16	74	92	15	76	9
	Adm cog 16-20	408	21	15	11	7	17	15	13	65	75	17	71	12
	Adm cog >=21	504	9	7	6	4	7	13	11	71	79	31	53	15
Hypnotic	Overall	2130	30	14	20	10	23	18	13	60	67	48	42	10
	Adm cog <=6	339	36	14	23	9	29	24	21	57	58	34	51	16
	Adm cog 7-10	374	37	17	26	12	31	22	18	62	70	41	50	9
	Adm cog 11-15	495	31	15	20	10	25	18	14	61	68	47	46	7
	Adm cog 16-20	408	25	13	16	8	16	11	9	57	64	55	35	9
	Adm cog >=21	504	24	13	16	9	17	11	8	62	70	68	23	10
Hypnotic: GABA-A Agonist (benzodiazepine)	Overall	2130	5	1	3	>0	3	11	6	39	28	46	48	6
	Adm cog <=6	339	4	>0	2	0	2	10	7	25	20	39	55	7
	Adm cog 7-10	374	6	>0	4	>0	4	16	15	44	42	33	63	4
	Adm cog 11-15	495	5	>0	3	>0	3	13	10	46	36	36	64	0
	Adm cog 16-20	408	4	1	2	>0	2	7	3	35	28	67	29	4
	Adm cog >=21	504	4	2	2	>0	1	6	2	39	25	61	24	14
	Overall	2130	25	13	17	8	20	18	14	61	67	51	42	8
	Adm cog <=6	339	30	12	19	7	26	25	23	60	67	35	52	13

Hypnotic: GABA-A Agonist (non-benzodiazepine)	Adm cog 7-10	374	32	16	22	11	28	23	19	64	71	42	50	8
	Adm cog 11-15	495	26	13	15	8	20	17	14	59	63	54	42	4
	Adm cog 16-20	408	21	11	15	7	14	12	9	60	66	56	37	7
	Adm cog >=21	504	19	11	13	8	15	12	8	64	71	70	23	7
Hypnotic: Melatonin Agonist	Overall	2130	>0	>0	>0	>0	>0	18	10	54	47	8	54	38
	Adm cog <=6	339	2	>0	1	>0	1	30	25	56	55	0	50	50
	Adm cog 7-10	374	>0	0	>0	0	0	12	12	71	71	0	100	0
	Adm cog 11-15	495	>0	>0	>0	0	0	7	8	37	37	25	25	50
	Adm cog >=21	504	>0	>0	>0	>0	0	10	10	73	73	0	100	0
Hypnotic: Other	Overall	2130	3	>0	2	>0	2	16	5	43	25	39	34	27
	Adm cog <=6	339	5	1	3	>0	3	21	13	42	47	30	53	18
	Adm cog 7-10	374	3	>0	2	>0	2	19	13	50	65	46	38	15
	Adm cog 11-15	495	3	>0	2	>0	2	21	15	62	78	18	46	36
	Adm cog 16-20	408	2	>0	>0	0	0	4	2	17	11	50	13	38
	Adm cog >=21	504	2	>0	>0	>0	0	5	2	30	9	64	0	36
Narcotic Analgesic	Overall	2130	72	55	45	36	59	16	13	65	77	63	26	11
	Adm cog <=6	339	71	50	35	26	59	21	17	56	51	63	25	12
	Adm cog 7-10	374	74	50	40	29	60	18	14	57	59	61	30	9
	Adm cog 11-15	495	73	56	42	35	59	16	13	62	70	64	26	10
	Adm cog 16-20	408	75	60	51	43	60	14	12	69	90	57	32	12
	Adm cog >=21	504	69	59	52	46	58	14	11	78	100	69	19	12
Micellaneous Psychotropic	Overall	2130	18	8	15	6	16	19	15	69	75	9	78	13
	Adm cog <=6	339	24	4	22	3	23	26	21	58	59	16	76	8
	Adm cog 7-10	374	19	7	14	5	17	21	17	65	68	10	77	13
	Adm cog 11-15	495	21	10	17	8	20	17	16	73	81	4	84	12
	Adm cog 16-20	408	19	12	16	9	17	16	14	75	90	5	78	17
	Adm cog >=21	504	10	7	7	6	8	13	9	72	98	14	69	18
Micellaneous Psychotropic: AChE Inhibitor	Overall	2130	9	1	8	1	8	21	15	58	58	17	75	8
	Adm cog <=6	339	18	1	17	1	17	26	20	54	56	21	73	6
	Adm cog 7-10	374	11	1	9	1	10	21	17	56	56	15	73	12
	Adm cog 11-15	495	10	2	9	2	9	16	13	63	65	9	85	6
	Adm cog 16-20	408	5	1	5	1	5	17	14	62	60	9	78	13
	Adm cog >=21	504	2	>0	2	>0	2	15	10	61	50	57	33	10
	Overall	2130	1	>0	1	>0	1	20	15	68	77	9	70	21

Micellaneous Psychotropic: NMDA Antagonist	Adm cog <=6	339	2	>0	2	>0	2	33	16	64	65	18	40	43
	Adm cog 7-10	374	2	>0	>0	>0	0	22	11	53	52	0	83	17
	Adm cog 11-15	495	2	>0	2	>0	1	16	18	79	89	3	72	24
	Adm cog 16-20	408	2	>0	2	>0	1	11	14	72	86	15	85	0
Micellaneous Psychotropic: Other	Overall	2130	9	6	7	5	8	17	14	77	92	3	81	17
	Adm cog <=6	339	5	2	4	1	5	24	21	71	79	0	90	10
	Adm cog 7-10	374	8	5	5	3	8	19	15	74	88	9	79	13
	Adm cog 11-15	495	11	8	8	5	11	19	17	80	95	>0	83	16
	Adm cog 16-20	408	13	10	10	7	12	15	13	78	94	2	79	20
	Adm cog >=21	504	8	7	6	5	6	12	10	75	100	3	78	19
Stimulant	Overall	2130	28	7	22	6	26	23	18	66	72	5	83	12
	Adm cog <=6	339	57	16	41	12	54	29	27	67	75	4	79	17
	Adm cog 7-10	374	44	10	36	9	43	25	22	68	78	3	89	8
	Adm cog 11-15	495	25	5	20	4	23	19	16	63	64	5	84	11
	Adm cog 16-20	408	15	5	12	4	13	13	11	65	67	9	78	14
	Adm cog >=21	504	8	2	7	2	6	11	9	64	64	10	79	10
Stimulant: NE Agonist	Overall	2130	3	>0	2	>0	2	23	17	56	57	0	92	8
	Adm cog <=6	339	4	>0	4	>0	4	33	29	60	53	0	100	0
	Adm cog 7-10	374	6	0	5	0	5	22	23	57	72	0	94	6
	Adm cog 11-15	495	3	>0	2	>0	3	26	15	62	69	0	77	23
	Adm cog 16-20	408	1	>0	>0	0	0	5	6	36	27	0	100	0
	Adm cog >=21	504	>0	>0	>0	0	0	16	16	39	39	0	100	0
Stimulant: NE-DA-5HT Agonist	Overall	2130	23	5	18	4	21	23	18	64	70	6	81	13
	Adm cog <=6	339	51	11	38	8	48	28	27	64	72	5	77	18
	Adm cog 7-10	374	35	7	29	6	33	25	22	65	72	4	89	7
	Adm cog 11-15	495	21	4	17	3	19	19	16	61	62	6	82	12
	Adm cog 16-20	408	13	5	10	3	10	13	11	64	72	11	76	13
	Adm cog >=21	504	6	2	5	2	5	11	10	63	64	10	75	14
Stimulant: Other	Overall	2130	6	2	4	1	5	22	15	64	67	1	83	16
	Adm cog <=6	339	11	6	4	3	10	29	18	57	49	0	69	31
	Adm cog 7-10	374	10	3	9	2	10	25	22	72	86	>0	84	15
	Adm cog 11-15	495	4	1	3	>0	3	16	10	60	61	>0	100	0
	Adm cog 16-20	408	3	>0	2	>0	2	12	9	60	56	0	82	18
	Adm cog >=21	504	2	>0	2	>0	1	9	6	59	50	11	89	0

* 10 patients were excluded due to missing Admission FIM cognitive score

† r'cd = received

‡ sched = scheduled