

Table S1. Administrations of psychotropic drugs in hospitalized adolescents in 2008 (n=76 patients) and 2014 (n=76 patients)

Drugs	Administrations, n (mean/patient)		Off-label administrations, n (%) ^a		Dose [mg/day], median (range) ^b		Duration of administration [day], median (range)	
	2008	2014	2008	2014	2008	2014	2008	2014
Antipsychotics								
Levomepromazine (oral)	22	21	22 (100%)	21 (100%)	25 (11-54)	25 (10-98)	5 (1-41)	8 (1-55)
Levomepromazine (inj)	10 *	2 *	10 (100%)	2 (100%)	25 (12.5-50)	25 (25-25)	1 (1-11)	2.5 (1-4)
Quetiapine (IR) ^c	14	14	14 (100%)	10 (71.4%)	256 (25-414) [#]	55 (25-200) [#]	17 (1-111) [#]	3 (1-45) [#]
Quetiapine (XR) ^d	2 *	34 *	2 (100%)	34 (100%)	131 (50-213)	273 (50-800)	24 (1-47)	10 (1-51)
Olanzapine	16 *	5 *	16 (100%)	5 (100%)	11 (2.5-18)	18 (7.8-20)	14 (1-47)	11 (8-81)
Risperidone	15	13	8 (53.3%)	10 (76.9%)	1.8 (0.5-4)	1 (0.4-2)	8 (2-27)	12 (2-127)
Chlorprothixene	8 *	0 *	8 (100%)	-	17 (15-44)	-	7 (1-34)	-
Haloperidol (oral)	1	4	1 (100%)	3 (75%)	21 (21-21)	2.2 (0.8-4.4)	15 (15-15)	21 (6-72)
Haloperidol (inj)	2	0	2 (100%)	-	5 (5-5)	-	1 (1-1)	-
Amisulpride	4	3	4 (100%)	3 (100%)	503 (367-567)	175 (142-477)	19 (3-58)	34 (12-36)
Aripiprazole	1	2	1 (100%)	1 (50%)	10 (10-10)	6.4 (5-7.7)	10 (10-10)	9 (5-13)
Clozapine	1	0	1 (100%)	-	231 (231-231)	-	8 (8-8)	-
Subtotal	96 (1.3)	98 (1.3)	89 (92.7%)	89 (90.8%)				
Antidepressants								
Citalopram	12 *	1 *	12 (100%)	1 (100%)	20 (10-60)	20 (20-20)	17 (3-82)	26 (26-26)
Escitalopram	3	0	3 (100%)	-	10 (10-15)	-	13 (2-89)	-
Mirtazapine	4	0	4 (100%)	-	27 (18-30)	-	33 (7-92)	-
Sertraline	1 *	8 *	1 (100%)	8 (100%)	50 (50-50)	66 (47-100)	9 (9-9)	14 (3-49)
Fluoxetine	1	0	1 (100%)	-	40 (40-40)	-	6 (6-6)	-
Clomipramine	1	0	1 (100%)	-	25 (25-25)	-	10 (10-10)	-
Duloxetine	0	1	-	1 (100%)	-	30 (30-30)	-	84 (84-84)
Subtotal	22 (0.29)[#]	10 (0.13)[#]	22 (100.0%)	10 (100.0%)				
Hypnotics								
Zolpidem	6 *	0 *	3 (50%)	-	9.2 (5-11.3)	-	2.5 (1-13)	-
Zopiclone	3	1	3 (100%)	1 (100%)	7.5 (3.8-7.5)	7.5 (7.5-7.5)	3 (2-10)	8 (8-8)
Subtotal	9 (0.12)	1 (0.01)	6 (66.7%)	1 (100%)				

(continued)

Table S1. (continued)

Drugs	Administrations, n (mean/patient)		Off-label administrations, n (%) ^a		Dose [mg/day], median (range) ^b		Duration of administration [day], median (range)	
	2008	2014	2008	2014	2008	2014	2008	2014
Anxiolytics								
Lorazepam (oral)	22	20	1 (4.5%)	0 (0%)	1.1 (1-8)	1 (0.8-2.5)	3 (1-58) [#]	1.5 (1-8) [#]
Lorazepam (inj)	1	0	1 (100%)	-	4 (4-4)	-	1 (1-1)	-
Oxazepam	2	0	0 (0%)	-	35 (30-40)	-	9 (1-17)	-
Alprazolam	1	0	1 (100%)	-	1 (1-1)	-	4 (4-4)	-
Bromazepam	1	0	0 (0%)	-	1.5 (1.5-1.5)	-	2 (2-2)	-
Clorazepate	1	1	0 (0%)	0 (0%)	5 (5-5)	10 (10-10)	4 (4-4)	2 (2-2)
Diazepam	0	1	-	0 (0%)	-	7.5 (7.5-7.5)	-	4 (4-4)
Hydroxyzine	0	2	-	0 (0%)	-	54 (25-83)	-	11 (9-12)
Subtotal	28 (0.38)	24 (0.32)	3 (10.7%)	0 (0.0%)				
Phytotherapy								
Phytotherapy "Sleep" ^e	9	3	0 (0%)	0 (0%)	1 (1-1.4) ^h	1 (1-1) ^h	8 (3-19) [#]	4 (1-5) [#]
Phytotherapy "Sleep Strong" ^f	1	0	0 (0%)	-	1.1 (1.1-1.1) ^h	-	31 (31-31)	-
Phytotherapy "Relaxing" ^g	0	2	-	0 (0%)	-	1 (1-1) ^h	-	1.5 (1-2)
Subtotal	10 (0.13)	5 (0.07)	0 (0.0%)	0 (0.0%)				
Others								
Nicotine	1	0	0 (0%)	-	2.5 (2.5-2.5)	-	4 (4-4)	-
Biperiden (IR) ^c	3	3	0 (0%)	0 (0%)	2 (2-2.5)	2 (1.8-2)	1 (1-14)	1 (1-36)
Biperiden (XR) ^d	1	3	1 (100%)	3 (100%)	4 (4-4)	2 (2-4)	13 (13-13)	9 (1-65)
Biperiden (inj)	0	0	-	-	-	-	-	-
Valproate	1	0	1 (100%)	-	600 (600-600)	-	15 (15-15)	-
Methylphenidate	0	0	-	-	-	-	-	-
Atomoxetine	0	1	-	0 (0%)	-	25 (25-25)	-	13 (13-13)
Lamotrigine	0	1	-	1 (100%)	-	12.5 (12.5-12.5)	-	5 (5-5)
Melatonin	0	1	-	1 (100%)	-	3 (3-3)	-	5 (5-5)
Subtotal	6 (0.08)	9 (0.12)	2 (33.3%)	5 (55.6%)				
TOTAL	171 (2.3)	147 (1.9)	122 (71.3%)	105 (71.4%)				

^a according to the approved indications in Switzerland at the moment of the study (2008 and 2014); ^b for each patient, a mean daily dose administered during the study period was calculated, the median (range) of these mean doses are reported here; ^c immediate drug release; ^d extended drug release; ^e Valerian Root dry extract 250 mg and Hop Strobile dry extract 60 mg; ^f Valerian Root dry extract 500 mg and Hop Strobile dry extract 120 mg; ^g Butterbur Root dry extract 90 mg, Passion Flower dry extract 90 mg, Valerian Root dry extract 90 mg and Melissa Leaf dry extract 60 mg; ^h dose expressed as tablet; * Fisher's exact *p*-value < 0.05 between 2008 and 2014; [#] Mann-Whitney *p*-value < 0.05 between 2008 and 2014.