

Supplementary material

Time to treatment discontinuation in German patients with Schizophrenia: Long acting injectables versus oral antipsychotics

Clinical Drug Investigation

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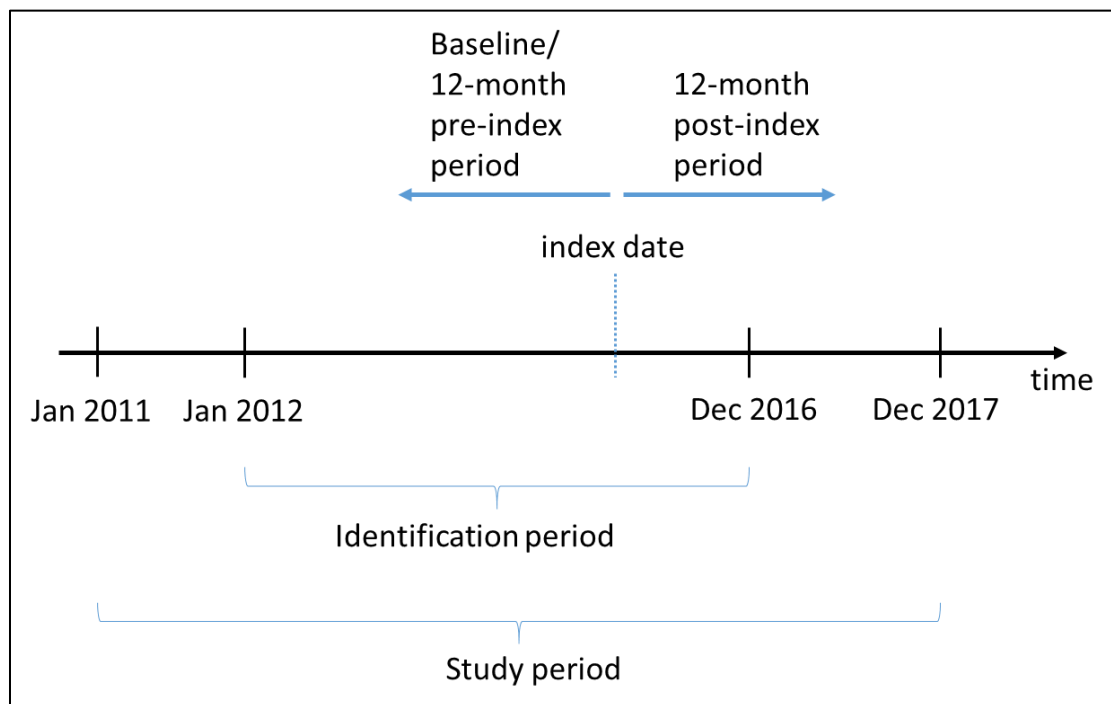
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Supplementary table 1: ICD-10 codes used to diagnose schizophrenia

ICD-10 code	Schizophrenia subtype
F20.0	Paranoid schizophrenia
F20.1	Hebephrenic schizophrenia
F20.2	Catatonic schizophrenia
F20.3	Undifferentiated schizophrenia
F20.4	Post-schizophrenic depression
F20.5	Residual schizophrenia
F20.6	Simple schizophrenia
F20.8	Other schizophrenia
F20.9	Schizophrenia, unspecified

Abbreviations: ICD-10 - International Classification of Diseases, 10th Revision

Supplementary figure 1: Study timeframe



Supplementary table 2: ATC Codes for long acting injectables

ATC code	Generic name	Injection interval
N05AX12	Aripiprazole	4 weeks
N05AF01	Flupenthixol	4 weeks
N05AB02	Fluphenazine	3 weeks
N05AG01	Fluspirilene	1 week
N05AD01	Haloperidol	4 weeks
N05AH03	Olanzapine	2 weeks (205 mg), 3 weeks (300 mg), 4 weeks (405mg)
N05AX13	Paliperidone	4 weeks (Xeplion), 12 weeks (Trevicta)
N05AB03	Perphenazine	2 weeks
N05AX08	Risperidone	2 weeks
N05AF05	Zuclopentixol	4 weeks (2-4 weeks)

Abbreviations: ATC – Anatomical Therapeutic Chemical Classification System

Supplementary table 3: ATC Codes for oral antipsychotics

ATC Code	Generic name	Defined Daily Dose
N05AL05	Amisulpride	400 mg
N05AX12	Aripiprazole	15 mg
N05AH05	Asenapine	20 mg
N05AD07	Benperidol	1,5 mg
N05AD06	Bromperidol	10 mg
N05AF03	Chlorprothixene	300 mg
N05AH02	Clozapine	300 mg
N05AF01	Flupenthixol	6 mg
N05AB02	Fluphenazine	10 mg
N05AD01	Haloperidol	8 mg
N05AA02	Levomepromazine	300 mg
N05AN01	Lithium	24 mmol
N05AE05	Lurasidone	55,5 mg
N05AD03	Melperone	300 mg
N05AH03	Olanzapine	10 mg
N05AX13	Paliperidone	6 mg
N05AB10	Perazine	100 mg
N05AB03	Perphenazine	30 mg
N05AG02	Pimozide	4 mg
N05AD05	Pipamperone	200 mg
N05AX07	Prothipendyl	240 mg
N05AH04	Quetiapine	400 mg
N05AX08	Risperidone	5 mg
N05AE03	Sertindole	16 mg
N05AL01	Sulpiride	800 mg
N05AC02	Thioridazine	300 mg
N05AL03	Tiapride	400 mg
N05AE04	Ziprasidone	80 mg
N05AX11	Zotepine	200 mg
N05AF05	Zuclopenthixol	30 mg

Abbreviations: ATC – Anatomical Therapeutic Chemical Classification System

Supplementary table 4: ICD-10 Codes for comorbidities

Comorbidity	ICD-10 code
Myocardial infarction	I21.x, I22.x, I25.2
Congestive heart failure	I09.9, I11.0, I13.0, I13.2, I25.5, I42.0, I42.5–I42.9, I43.x, I50.x, P29.0
Peripheral vascular disease	I70.x, I71.x, I73.1, I73.8, I73.9, I77.1, I79.0, I79.2, K55.1, K55.8, K55.9, Z95.8, Z95.9
Cerebrovascular disease	G45.x, G46.x, H34.0, I60.x–I69.x
Dementia	F00.x–F03.x, F05.1, G30.x, G31.1
Chronic pulmonary disease	I27.8, I27.9, J40.x–J47.x, J60.x–J67.x, J68.4, J70.1, J70.3
Rheumatic disease	M05.x, M06.x, M31.5, M32.x–M34.x, M35.1, M35.3, M36.0
Peptic ulcer disease	K25.x–K28.x
Mild liver disease	B18.x, K70.0–K70.3, K70.9, K71.3–K71.5, K71.7, K73.x, K74.x, K76.0, K76.2–K76.4, K76.8, K76.9, Z94.4
Diabetes without chronic complication	E10.0, E10.1, E10.6, E10.8, E10.9, E11.0, E11.1, E11.6, E11.8, E11.9, E12.0, E12.1, E12.6, E12.8, E12.9, E13.0, E13.1, E13.6, E13.8, E13.9, E14.0, E14.1, E14.6, E14.8, E14.9
Diabetes with chronic complication	E10.2–E10.5, E10.7, E11.2–E11.5, E11.7, E12.2–E12.5, E12.7, E13.2–E13.5, E13.7, E14.2–E14.5, E14.7
Hemiplegia or paraplegia	G04.1, G11.4, G80.1, G80.2, G81.x, G82.x, G83.0–G83.4, G83.9
Renal disease	I12.0, I13.1, N03.2–N03.7, N05.2–N05.7, N18.x, N19.x, N25.0, Z49.0–Z49.2, Z94.0, Z99.2
Tumors without metastasis	C00.x–C26.x, C30.x–C34.x, C37.x–C41.x, C43.x, C45.x–C58.x, C60.x–C76.x
Lymphoma	C81.x–C85.x, C88.x
Leukemia	C90.x–C97.x
Moderate or severe liver disease	I85.0, I85.9, I86.4, I98.2, K70.4, K71.1, K72.1, K72.9, K76.5, K76.6, K76.7
Metastatic solid tumor	C77.x–C80.x
AIDS/HIV	B20.x–B22.x, B24.x

Abbreviations: AIDS – Acquired Immunodeficiency Syndrome, HIV – Human Immunodeficiency Virus, ICD-10 - International Classification of Diseases, 10th Revision

Supplementary table 5: Covariates for Cox regression analyses

Parameter	Overall cohort		Complete switch cohort	
	LAI (n=1,132)	Oral (n=1,518)	LAI (n=533)	Oral (n=230)
Insurance status, n (%)				
No compulsory insurance	4 (0.4)	9 (0.6)	1 (0.2)	1 (0.4)
Compulsory insurance	242 (21.4)	432 (28.5)	117 (22.0)	73 (31.7)
Voluntary insurance	104 (9.2)	136 (9.0)	40 (7.5)	18 (7.8)
Unemployed person	192 (17.0)	110 (7.2)	96 (18.0)	24 (10.4)
Pension claimant	8 (0.7)	4 (0.3)	3 (0.6)	1 (0.4)
Retired	398 (35.2)	610 (40.2)	199 (37.3)	75 (32.6)
Special group of persons	13 (1.1)	18 (1.2)	5 (0.9)	2 (0.9)
Family member	106 (9.4)	132 (8.7)	48 (9.0)	24 (10.4)
Unknown	65 (5.7)	67 (4.4)	24 (4.5)	12 (5.2)
Medication costs (€) (mean [SD])				
Pre-index	816 (1,300)	1,703 (2,647)	467 (804)	1,181 (1,655)
Post-index	4,250 (3,508)	2,080 (3,950)	3,690 (3,113)	1,832 (7,174)
Psychiatric inpatient stay costs (€) (mean [SD])				
Pre-index	11,000 (13,993)	3,056 (7,114)	10,099 (13,027)	2,884 (6,123)
Post-index	4,942 (9,855)	3,584 (8,160)	3,607 (7,938)	5,127 (9,215)
Visit costs (€) (mean [SD])				
Pre-index	535 (544)	808 (1,295)	523 (562)	837 (822)
Post-index	697 (646)	844 (1,262)	694 (621)	865 (644)

Abbreviations: SD – Standard Deviation