

Table S1*Distribution of DUP*

	Mean	SD
<30 days	12.98	8.33
30-180 days	109.42	42.35
180-365 days	272.30	55.43
>365 days	1916.02	2001.35

Table S2

Psychosocial function of individuals with onset in late adolescence versus adulthood.

	First Admission in Late Adolescence (N=77)		First Admission in Adulthood (N=201)		p-value
	Mean	SD	Mean	SD	
Childhood	61.69	9.21	62.84	10.51	0.36
Early adolescence	61.56	9.81	62.97	10.39	0.28
Baseline	56.93	13.40	58.98	14.55	0.24

Table S3*Course of Illness and DUP based on first antipsychotic medication (N = 285)*

	<u>Years to first admission</u>			<u>Years to onset of psychosis</u>		
	B	SE	P	B	SE	P
Intercept	59.43	0.58	<0.001	59.36	0.57	<0.001
Slope 1 ^a	-0.14	0.05	0.00	-0.11	0.05	0.04
Slope 2 ^a	-0.85	0.03	<0.001	-0.81	0.03	<0.001
DUP	-0.04	0.01	<0.001	0.00	0.01	0.71

Note. Time is expressed in years. DUP is measured as a continuous variable. Coefficients for DUP were transformed to reflect the difference in illness severity attributable to 30 days untreated psychosis. DUP = duration of untreated psychosis, measured as time from first clear psychotic symptom to first treatment with antipsychotic medication. ^aSlope 1 reflects annual change in psychosocial function from childhood to the inflection point. Slope 2 reflects annual change in psychosocial function over the remainder of the course of illness.

Table S4*Age and functioning across study time points*

	N	Mean	SD	Min	Max
Psychosocial Function					
Childhood	267	60.0	9.7	27	84
Early Adolescence	259	60.0	10.1	32	84
Late Adolescence	233	58.0	11.4	22	84
First Admission	287	53.0	13.9	21	81
6 months	236	49.7	13.0	21	81
24 months	231	50.3	13.0	25	82
48 months	225	49.9	12.0	10	81
10 years	224	44.1	10.6	21	80
20 years	175	35.2	10.2	11	70

Note. Cumulative attrition due to death was N = 2 at 24 months (<1%), N = 5 at 48 months (1.7%), N = 14 at 10 years (4.9%), and N = 43 at 20 years (15%).

Table S5*Model fit (BIC) of alternative change points*

Change point	<u>DUP to admit^a</u>		<u>DUP to AP^b</u>	
	Years to first admission	Years to onset of first psychotic symptom	Years to first admission	Years to onset of first psychotic symptom
-10	16171.72	16174.72	16016.05	16015.32
-9	16167.46	16171.91	16011.94	16012.60
-8	16164.39	16169.33	16009.02	16010.07
-7	16163.00	16167.99	16007.79	16008.76
-6	16163.00	16167.47	16007.97	16008.25
-5	16163.91	16167.90	16009.02	16008.68
-4	16165.27	16168.65	16010.44	16009.41
-3	16166.69	16169.43	16011.89	16010.14
-2	16167.62	16170.70	16012.86	16011.36
-1	16168.36	16171.90	16013.61	16012.52
0	16169.00	16172.99	16014.22	16013.59
1	16172.27	16177.52	16017.30	16017.98
2	16173.51	16184.90	16018.35	16025.24
3	16175.61	16190.45	16020.40	16030.78

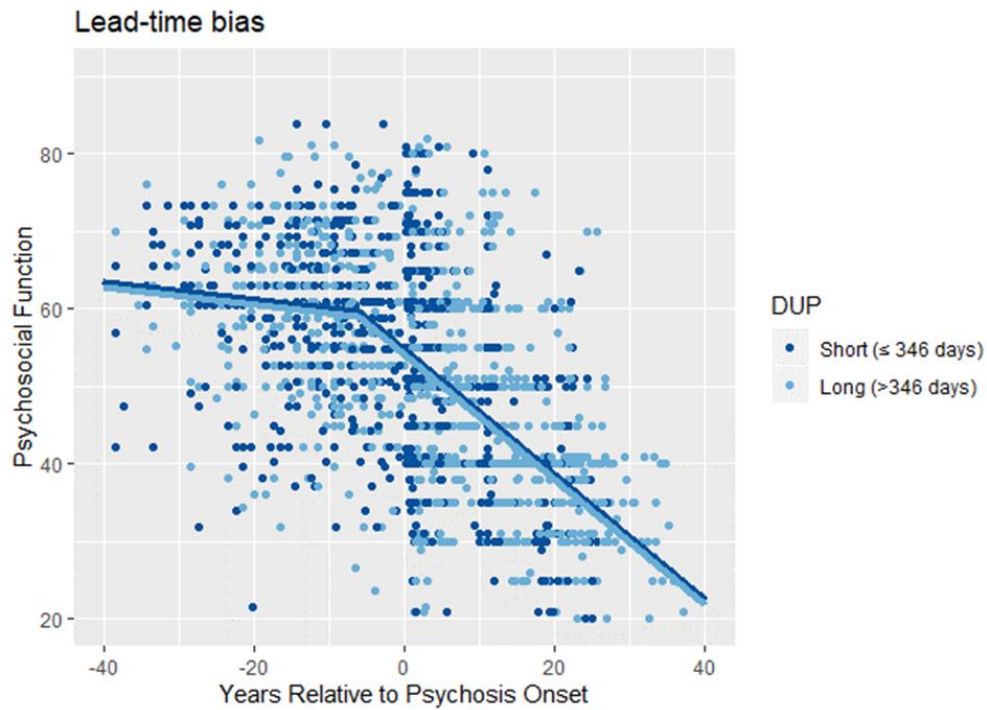
4	16175.61	16195.14	16023.28	16035.51
5	16182.76	16200.58	16027.59	16041.14
6	16186.93	16206.06	16031.87	16046.93
7	16185.62	16211.08	16030.66	16052.24
8	16190.48	16216.01	16035.61	16057.45
9	16196.67	16221.48	16041.89	16071.02
10	16203.95	16227.66	16049.26	16069.49

Note. Model fit is expressed in terms of the Bayesian Information Criterion (BIC), in which smaller values indicate better fit. Values in bold indicate the model with best fit. ^a DUP calculated as time elapsed between first psychotic symptom and first admission. ^b DUP calculated as time elapsed between first psychotic symptom and first antipsychotic medication.

Table S6*Model fit (BIC) of multilevel spline regression models*

Model	<u>Model Fit</u>	
	Time Relative to Psychosis Onset	Time Relative to First Admission
<i>Psychosocial Function ~ Intercept</i>	17044.18	17044.18
<i>Psychosocial Function ~ Intercept + Time</i>	16152.91	16175.03
<i>Psychosocial Function ~ Intercept + Time + DUP</i>	16167.47	16162.71
<i>Psychosocial Function ~ Intercept + Time + DUP + Time × DUP</i>	16182.96	16195.92

Note. Model fit is expressed in terms of the Bayesian Information Criterion (BIC), in which smaller values indicate better fit. Values in bold indicate the model with best fit. Model equations include fixed effects as well as random intercepts and slopes (where applicable).

Figure S1

Note. Model-implied trajectory of illness severity (Global Assessment of Function, GAF). Time 0 is the onset of first psychotic symptom. For illustrative purposes, DUP is dichotomized by a median split, with short DUP less than and long DUP greater than 346 days.