

TABLE S1. Mortality rate ratios (MRRs) for infectious causes of death within 30 days after a hospitalization for any infection (N=9,812) among persons with SMI as compared to persons from without severe mental illness (SMI) in Denmark 1995-2010 (N=737,645)

	No. of deaths (No SMI)	No. of deaths (SMI)	MRR (95% CI)
Any infection^a	9,565	247	2.61 (2.30-2.96)
Type of infection			
Sepsis	1,338	42	2.58 (1.89-3.51)
Respiratory infections			
Pneumonia	6,013	151	2.81 (2.39-3.30)
Other respiratory ^b	66	-	-
Gastrointestinal	432	13	2.91 (1.67-5.07)
Urinary tract	659	14	2.46 (1.44-4.18)
CNS	429	11	1.80 (0.99-3.27)
HIV and Hepatitis	73	5	3.56 (1.43-8.84)
Other infections ^c	555	11	1.75 (0.96-3.19)

The table shows the mortality rate ratios for infectious causes of death within 30 days after an admission for any infection among persons with a history of severe mental illness compared with persons without such a history.

Abbreviations: MRR: mortality rate ratio; CI: confidence interval; SMI: severe mental illness; CNS: central nervous system.

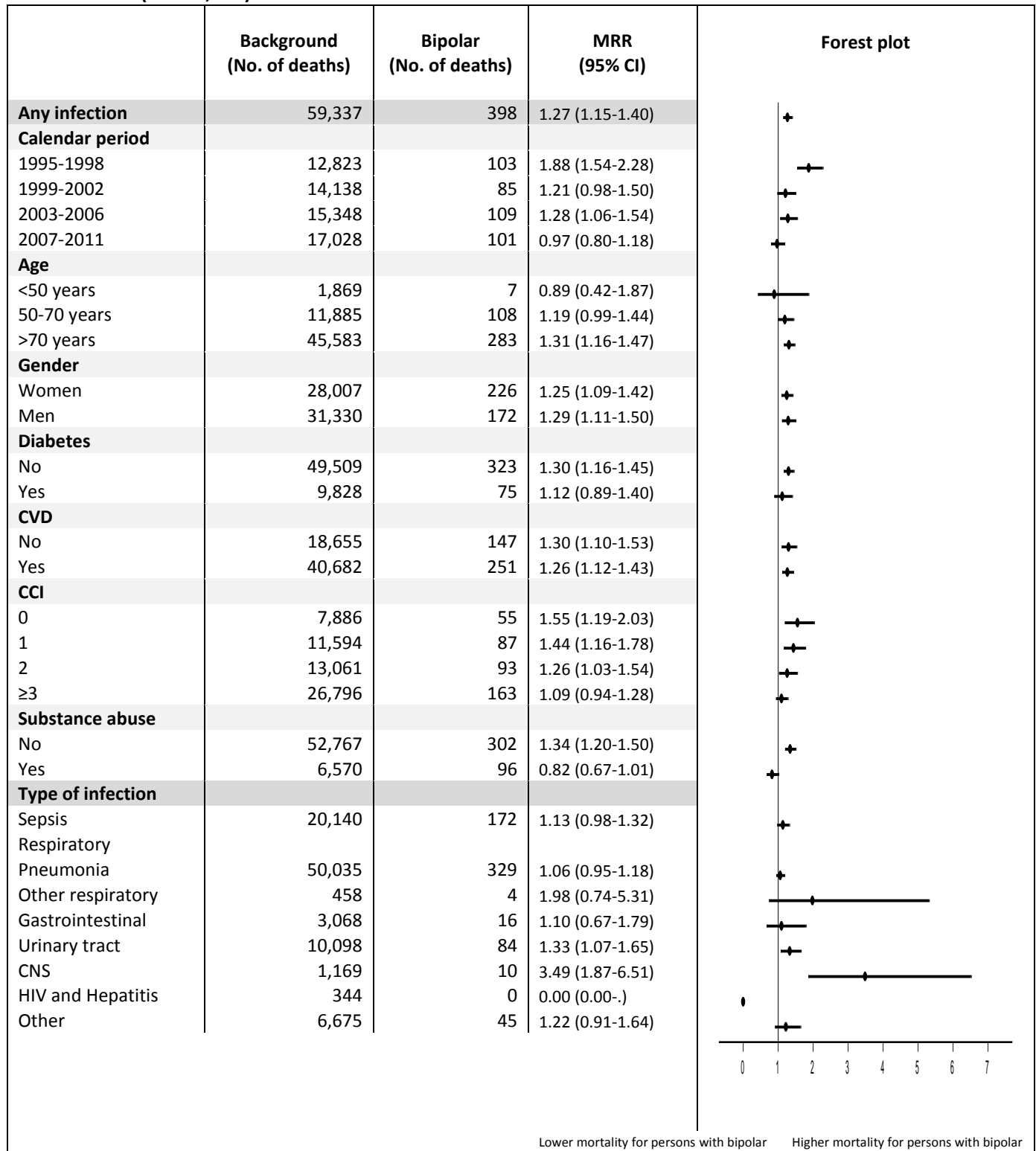
^aAny infection = death due to any of the categories for infectious deaths

^bNo deaths among persons with SMI.

^cOther deaths = the remaining causes of infectious deaths not included in any of the other categories.

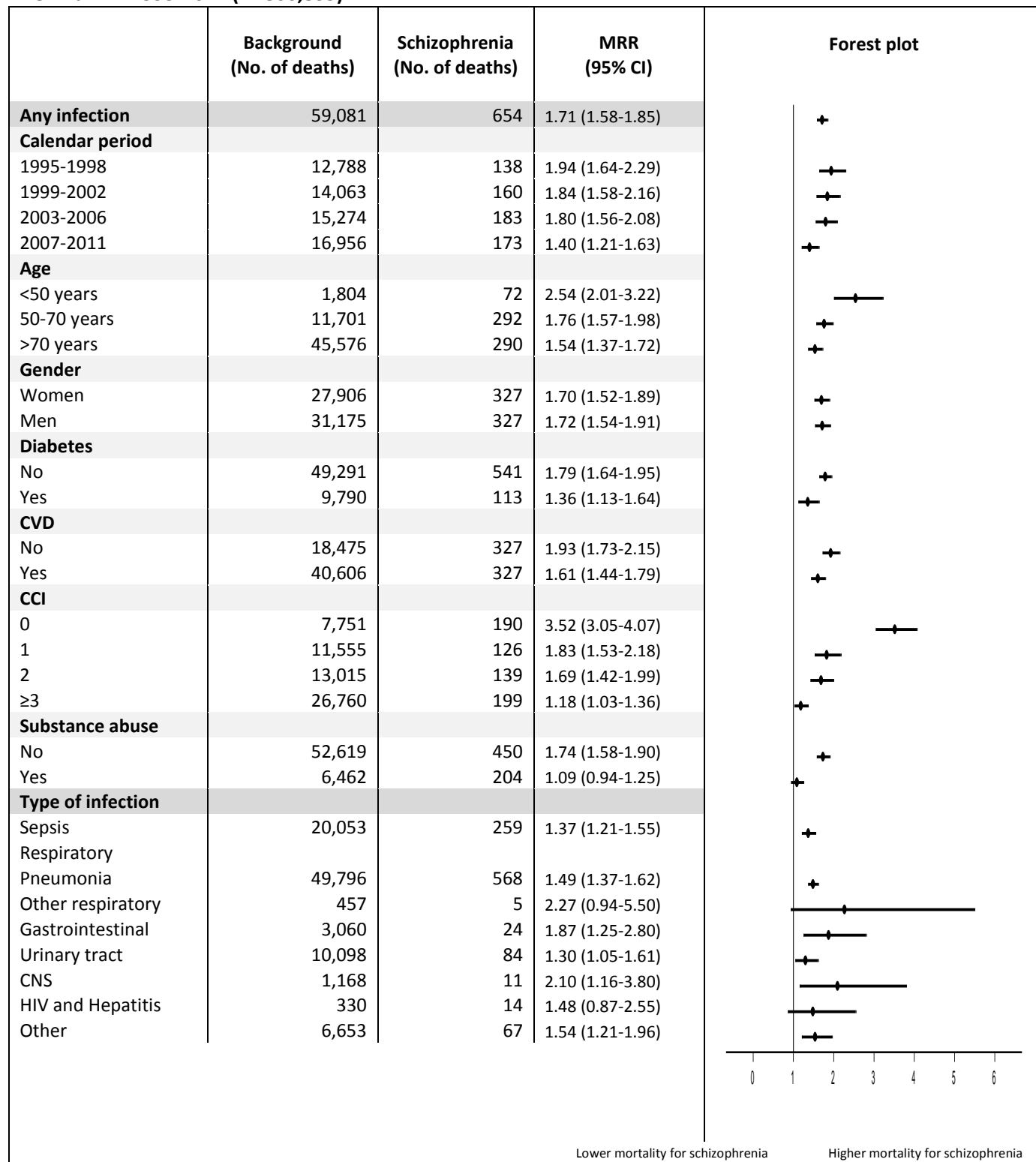
The MRRs were adjusted for age, gender, and calendar period.

FIGURE S1. Mortality rate ratios (MRRs) for all-cause mortality up to 30 days after first-time hospitalization for infections among persons with bipolar affective disorder as compared to persons without in Denmark in 1995-2011 (N=806,835)



The figure shows the mortality rate ratios for all-cause mortality after a hospitalization for different categories of infections among persons with a history of bipolar affective disorder compared to persons without such a history. The MRRs were adjusted for age, gender, and calendar period. CVD=cardiovascular disease; CCI=Charlson comorbidity index.

FIGURE S2. Mortality rate ratios (MRRs) for all-cause mortality up to 30 days after first-time hospitalization for infections among persons with schizophrenia as compared to persons without schizophrenia in Denmark in 1995-2011 (N=806,835)



The figure shows the mortality rate ratios for all-cause mortality after a hospitalization for different categories of infections among persons with a history of schizophrenia compared to persons without such a history. The MRRs were adjusted for age, gender, and calendar period. CVD=cardiovascular disease; CCI=Charlson comorbidity index.

APPENDIX: ICD Codes Used in the Study

Information on severe mental illness obtained from the Danish Psychiatric Central Register		
	ICD-8	ICD-10
Schizophrenia	295 (excluding 295.79)	F20
Schizoaffective disorders	295.79, 296.8	F25
Bipolar affective disorders	296.19, 296.39	F30, F31
Information on hospital contacts for infections obtained from the Danish National Patient Register		
	ICD-10	
Sepsis	A40.0-41.9	
Respiratory infections		
Pneumonia	J12.0-18.9, A48.1, A70.9	
Other respiratory infections	J00.0-11.9	
Gastrointestinal infections	A00.0-09.9, K35.0-35.9	
Urinary tract infections	N10.0-10.9, N30.0, N39.0	
Central nervous system infections	A17.0-17.9, A32.1, A39.0, A81.0-81.9, A83.0-89.9, B00.3, B00.4, B01.0, B01.1, B02.0, B02.1 B05.0, B05.1, B06.0, B26.1, B26.2, B58.2, G00.0-01.9, G02.0, G02.1, G02.8, G03.0-04.9, G05.0, G05.1, G05.2, G05.8, G06.0-07.9	
HIV or hepatitis infections	B15.0-19.9, B20.0-24.9	
Other infections	A00.0-B99.9 (excluding all the above-mentioned codes), L00.0-08.9, M00.0-00.9, N45.0-45.9, N70.0-72.9, N76.0-77.9, O23.0-23.9, O26.4, O85.0-86.9, O98.0-98.9	
Information on cardiovascular diseases obtained from the Danish National Patient Register		
	ICD-8	ICD-10
Cardiovascular diseases	390-458	I00-I99
Information on the Charlson Comorbidity Index obtained from the Danish National Patient Register		
	ICD-8	ICD-10
Myocardial infarction	410	I21;I22;I23
Congestive heart failure	427.09, 427.10, 427.11, 427.19, 428.99, 782.49	I50; I11.0; I13.0; I13.2
Peripheral vascular disease	440, 441, 442, 443, 444, 445,	I70; I71; I72; I73; I74; I77
Cerebrovascular disease	430-438	I60-I69; G45; G46
Dementia	290.09-290.19, 293.09	F00-F03; F05.1; G30
Chronic pulmonary disease	490-493, 515-518	J40-J47; J60-J67; J68.4; J70.1; J70.3; J84.1; J92.0; J96.1; J98.2; J98.3

Connective tissue disease	712, 716, 734, 446, 135.99	M05; M06; M08; M09;M30;M31; M32; M33; M34; M35; M36; D86
Ulcer disease	530.91, 530.98, 531-534,	K22.1; K25-K28
Mild liver disease	571, 573.01, 573.04	B18; K70.0-K70.3; K70.9; K71; K73; K74; K76.0
Diabetes mellitus	249.00, 249.06, 249.07, 249.09, 250.00, 250.06, 250.07, 250.09	E10.0, E10.1; E10.9; E11.0; E11.1; E11.9
Hemiplegia	344	G81; G82
Moderate/severe renal Disease	403,404,580-583, 584, 590.09, 593.19, 753.10- 753.19, 792	I12; I13; N00-N05; N07; N11; N14; N17-N19; Q61
Diabetes mellitus with chronic complications	249.01-249.05, 249.08, 250.01-250.05, 250.08	E10.2-E10.8; E11.2-E11.8
Any tumour	140-194	C00-C75
Leukaemia	204-207	C91-C95
Lymphoma	200-203, 275.59	C81-C85; C88; C90; C96
Moderate/severe liver Disease	070.00, 070.02, 070.04, 070.06, 070.08, 573.00, 456.00-456.09	B15.0; B16.0; B16.2; B19.0; K70.4; K72; K76.6; I85
Metastatic solid tumour	195-198, 199	C76-C80
AIDS	079.83	B21-B24
Information on substance abuse disorders obtained from the Danish National Patient Register and the Danish Psychiatric Central Register		
	ICD-8	ICD-10
Drug related		
Opioids	304.09, 304.19	F11.0–F11.9
Cannabinoids	304.59	F12.0–F12.9
Sedatives/hypnotics	304.29, 304.39	F13.0–F13.9
Cocaine	304.49	F14.0–F14.9
Other stimulants	304.69	F15.0–15.9
Hallucinogens	304.79	F16.0–F16.9
Other and multiple drugs	304.89, 304.99	F18.0–F19.9
Alcohol related		
Alcohol psychosis and abuse syndrome	291.09–291.99 303.09–303.99	F10.0–F10.9
Cirrhosis of the liver	571.09, 571.19	K70.0–K70.9
Oesophageal varices	456.09, 456.19	I85.0–I85.9