Data Supplement for Hjorthøj et al., Infections as a Risk Factor for and Prognostic Factor After Substance-Induced Psychoses. Am J Psychiatry (doi: 10.1176/appi.ajp.2019.19101047)

Site of infection	ICD-8 codes	ICD-10 codes
Hepatitis	070	B15-B19
Sepsis	038	A40-A41
Gastrointestinal infection	000–009, 540	A00–A09, K35
Skin infection	035, 050–057, 110–111, 680–	B00–B09, A46, L00–L08
	686	
Respiratory infection	460–486	J00–J18
Pregnancy-related infection	630, 635, 670	023, 0264, 085–086, 098
Urogenital infection	612, 620, 622, 590, 59500-	N300, N518B, N70–N72, N76,
	59501	N770D, N771B, N771L
CNS infection	013, 02701, 03609, 04000-	DA022C, DA066, DA17, DA229C,
	04399, 045–046, 05201, 05302,	DA321, DA390, DA504, DA514B,
	05403, 05501, 05601, 062–065,	DA521A–B, DA548A,D, DA80–
	07199, 07202, 07501, 07929,	DA89, DB003–DB004, DB010–
	09049, 0949, 320–324, 392,	DB011, DB020–DB021, DB050–
	47400	DB051, DB060, DB261–DB262,
		DB375, DB451, DB582, DB602,
		DE236A, DG0, DI02, DP352A
Other types of infection	Remaining infections within the	Remaining infections within the
	general chapters 000–136, 710	general chapters A, B, M00

TABLE S1. Diagnostic codes used to define infections

	Model 1	Model 2
Any infection	2.15 (1.61-2.85), p<0.001	1.60 (1.20-2.14), p=0.001
Hepatitis	7.13 (1.77-28.77), p=0.006	2.61 (0.64-10.61), p=0.18
Sepsis	1.26 (0.40-3.94), p=0.69	1.04 (0.33-3.26), p=0.95
Gastrointestinal infection	1.47 (0.98-2.22), p=0.06	1.15 (0.76-1.73), p=0.51
Skin infection	2.44 (1.65-3.62), p<0.001	1.81 (1.22-2.68), p=0.003
Respiratory infection	1.58 (1.14-2.18), p=0.006	1.20 (0.87-1.66), p=0.28
Urogenital infection	2.33 (1.08-5.02), p=0.03	1.56 (0.72-3.40), p=0.26
CNS infection	1.94 (0.72-5.23), p=0.19	1.61 (0.60-4.34), p=0.35
Other infections	2.46 (1.68-3.60), p<0.001	1.89 (1.29-2.77), p=0.001

TABLE S2. Associations between infections and incident alcohol-induced psychosis

	Model 1	Model 2
Any infection	3.59 (1.66-7.73), p=0.001	2.59 (1.19-5.63), p=0.02
Hepatitis	Inestimable	Inestimable
Sepsis	6.02 (1.43-25.36), p=0.01	5.11 (1.21-21.58), p=0.03
Gastrointestinal infection	2.96 (1.26-6.95), p=0.01	2.19 (0.93-5.15), p=0.07
Skin infection	4.52 (1.92-10.64), p=0.001	3.24 (1.37-7.68), p=0.008
Respiratory infection	2.82 (1.33-5.97), p=0.007	2.08 (0.98-4.45), p=0.06
Urogenital infection	7.01 (2.02-24.36), p=0.002	4.60 (1.27-16.58), p=0.02
CNS infection	15.57 (5.40-44.90), p<0.001	12.55 (4.34-36.34), p<0.001
Other infections	1.45 (0.44-4.80), p=0.55	1.05 (0.32-3.51), p=0.93

TABLE S3. Associations between infections and incident opioid-induced psychosis

	Model 1	Model 2
Any infection	1.52 (1.38-1.67) p<0.001	1.21 (1.10-1.33), p<0.001
Hepatitis	1.73 (0.65-4.62), p=0.27	0.74 (0.28-1.97), p=0.55
Sepsis	1.66 (1.19-2.33), p=0.003	1.41 (1.01-1.98), p=0.04
Gastrointestinal infection	1.25 (1.08-1.45), p=0.003	1.04 (0.90-1.20), p=0.63
Skin infection	1.56 (1.33-1.82), p<0.001	1.23 (1.05-1.44), p=0.009
Respiratory infection	1.34 (1.20-1.50), p<0.001	1.08 (0.97-1.21), p=0.18
Urogenital infection	2.43 (1.86-3.17), p<0.001	1.81 (1.39-2.37), p<0.001
CNS infection	1.48 (1.00-2.19), p=0.05	1.26 (0.85-1.87), p=0.25
Other infections	1.50 (1.29-1.75), p<0.001	1.22 (1.05-1.42), p=0.009

TABLE S4. Associations between infections and incident cannabis-induced psychosis

	Model 1	Model 2
Any infection	2.59 (1.91-3.51), p<0.001	1.94 (1.42-2.64), p<0.001
Hepatitis	19.17 (7.86-46-75), p<0.001	6.92 (2.80-17.10), p<0.001
Sepsis	2.29 (0.94-5.57), p=0.07	1.90 (0.80-4.62), p=0.16
Gastrointestinal infection	2.20 (1.51-3.19), p<0.001	1.72 (1.18-2.49), p=0.005
Skin infection	3.04 (2.08-4.43), p<0.001	2.27 (1.55-3.32), p<0.001
Respiratory infection	1.92 (1.39-2.65), p<0.001	1.45 (1.05-2.02), p=0.02
Urogenital infection	2.13 (0.93-4.89), p=0.08	1.42 (0.62-3.28), p=0.41
CNS infection	1.06 (0.26-4.29), p=0.93	0.88 (0.22-3.55), p=0.86
Other infections	2.31 (1.55-3.45), p<0.001	1.77 (1.18-2.65), p=0.005

TABLE S5. Associations between infections and incident cocaine-induced psychosis

	Model 1	Model 2
Any infection	1.64 (1.37-1.97), p<0.001	1.22 (1.02-1.47), p=0.03
Hepatitis	10.44 (4.94-22.04), p<0.001	3.78 (1.78-8.04), p=0.001
Sepsis	2.65 (1.58-4.43), p<0.001	2.13 (1.27-3.56), p=0.004
Gastrointestinal infection	1.33 (1.02-1.75), p=0.04	1.04 (0.80-1.37), p=0.75
Skin infection	1.80 (1.36-2.38). p<0.001	1.34 (1.01-1.77), p=0.04
Respiratory infection	1.42 (1.15-1.76), p=0.001	1.07 (0.86-1.32), p=0.55
Urogenital infection	1.76 (1.00-3.08), p=0.05	1.19 (0.70-2.09), p=0.54
CNS infection	0.40 (0.10-1.60), p=0.20	0.33 (0.08-1.31), p=0.11
Other infections	1.73 (1.31-2.28), p<0.001	1.34 (1.01-1.76), p=0.04

TABLE S6. Associations between infections and incident amphetamine-induced psychosis

	Model 1	Model 2
Any infection	1.05 (0.69-1.59), p=0.84	0.80 (0.52-1.22), p=0.30
Hepatitis	8.16 (1.14-58-65), p=0.04	3.48 (0.48-25.32), p=0.22
Sepsis	2.63 (0.83-8.32), p=0.10	2.12 (0.67-6.72), p=0.20
Gastrointestinal infection	1.22 (0.65-2.29), p=0.54	0.99 (0.53-1.86), p=0.98
Skin infection	0.94 (0.41-2.15), p=0.88	0.71 (0.31-1.64), p=0.43
Respiratory infection	1.06 (0.63-1.77), p=0.84	0.82 (0.49-1.37), p=0.45
Urogenital infection	3.08 (1.11-8.55), p=0.03	2.23 (0.80-6.26), p=0.13
CNS infection	1.06 (0.15-7.58), p=0.96	0.84 (0.11-6.06), p=0.87
Other infections	0.99 (0.46-2.14), p=0.98	0.78 (0.36-1.69), p=0.53

TABLE S7. Associations between infections and incident hallucinogen-induced psychosis

TABLE S8. Associations between infections and incident substance-induced psychosis induced by other
or mixed substances

	Model 1	Model 2
Any infection	1.75 (1.59-1.94), p<0.001	1.29 (1.16-1.43), p<0.001
Hepatitis	15.05 (10.54-21.48), p<0.001	5.88 (4.10-8.42), p<0.001
Sepsis	1.90 (1.36-2.64), p<0.001	1.53 (1.10-2.13), p=0.01
Gastrointestinal infection	1.44 (1.25-1.67), p<0.001	1.11 (0.96-1.29), p=0.15
Skin infection	1.75 (1.50-2.05), p<0.001	1.29 (1.10-1.51), p=0.002
Respiratory infection	1.51 (1.34-1.69), p<0.001	1.12 (1.00-1.26), p=0.05
Urogenital infection	2.43 (1.85-3.21), p<0.001	1.62 (1.23-2.15), p=0.001
CNS infection	0.68 (0.40-1.24), p=0.21	0.55 (0.30-0.99), p=0.05
Other infections	1.89 (1.63-2.19), p<0.001	1.44 (1.24-1.67), p<0.001