

Article title

Major depressive disorders increase the susceptibility to self-reported infections in two German cohort studies

Journal name

Social Psychiatry and Psychiatric Epidemiology

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Online Resource 3: Results of the statistical tests of the conditional independencies implied by the directed acyclic graph

Implied conditional independencies	Estimate	p-value
Age $\perp$ Sex	0	0.96
PPI $\perp$ PhysicalActivity	0	0.96
COPD $\perp$ HouseholdSize	0	0.93
COPD $\perp$ Stress Smoking	-0.01	0.86
Asthma $\perp$ PhysicalActivity BMI, MDD, Smoking, Stress	-0.01	0.86
BMI $\perp$ Smoking PhysicalActivity, SES, Sex	-0.01	0.81
Diabetes $\perp$ HouseholdSize	-0.01	0.81
Alcohol $\perp$ Stress	0.01	0.76
Age $\perp$ Smoking	-0.01	0.75
Alcohol $\perp$ PhysicalActivity SES, Smoking, Stress	0.01	0.73
PPI $\perp$ Sex	-0.01	0.67
Alcohol $\perp$ HouseholdSize	-0.01	0.65
COPD $\perp$ PhysicalActivity Smoking	-0.02	0.64
Asthma $\perp$ HouseholdSize BMI, MDD, Smoking, Stress	0.02	0.63
HF $\perp$ HouseholdSize Age, Alcohol, BMI, CKD, Diabetes, MDD, PhysicalActivity, SES, Sex, Smoking, Stress, Stroke	0.02	0.55
BMI $\perp$ Stress PhysicalActivity, SES, Sex	-0.02	0.54
BMI $\perp$ HouseholdSize	-0.02	0.54
Asthma $\perp$ COPD BMI, MDD, Smoking, Stress	-0.02	0.53
Sex $\perp$ Stress	-0.02	0.51
Asthma $\perp$ Sex BMI, MDD, Smoking, Stress	0.02	0.47
Alcohol $\perp$ Asthma BMI, MDD, Smoking, Stress	-0.02	0.47
COPD $\perp$ Sex Smoking	0.03	0.4
PPI $\perp$ Smoking	0.03	0.38
Age $\perp$ COPD	0.03	0.32

Implied conditional independencies	Estimate	p-value
Asthma $\perp$ Diabetes BMI, MDD, Smoking, Stress	0.03	0.29
Age $\perp$ PPI	0.04	0.28
SES $\perp$ Stress	-0.04	0.2
Asthma $\perp$ Stroke BMI, MDD, Smoking, Stress	-0.04	0.2
CKD $\perp$ Sex Alcohol, BMI, PhysicalActivity, SES, Smoking, Stress	-0.04	0.19
Alcohol $\perp$ COPD Smoking	-0.04	0.18
Age $\perp$ BMI PhysicalActivity, SES, Smoking, Stress	-0.04	0.18
Age $\perp$ Asthma BMI, MDD, Smoking, Stress	0.05	0.16
Age $\perp$ BMI PhysicalActivity, SES, Sex	-0.05	0.14
Asthma $\perp$ SES BMI, MDD, Smoking, Stress	-0.05	0.14
CKD $\perp$ HouseholdSize	-0.05	0.14
Asthma $\perp$ CKD BMI, MDD, Smoking, Stress	0.05	0.11
Alcohol $\perp$ PPI	-0.05	0.1
CKD $\perp$ COPD Smoking	0.06	0.089
COPD $\perp$ Diabetes Smoking	0.06	0.083
HouseholdSize $\perp$ SES	0.06	0.07
HouseholdSize $\perp$ Stress	-0.06	0.068
Asthma $\perp$ PPI BMI, MDD, Smoking, Stress	0.06	0.061
Age $\perp$ Alcohol	0.06	0.049
COPD $\perp$ SES Smoking	-0.07	0.037
Diabetes $\perp$ Sex Alcohol, BMI, PhysicalActivity, SES, Smoking, Stress	-0.07	0.037
COPD $\perp$ HF Age, Alcohol, BMI, CKD, Diabetes, MDD, PhysicalActivity, SES, Sex, Smoking, Stress, Stroke	0.07	0.029
BMI $\perp$ COPD PhysicalActivity, SES, Sex	0.08	0.021
CKD $\perp$ PPI	0.08	0.013
HouseholdSize $\perp$ Smoking	-0.08	0.011
Age $\perp$ SES	-0.08	0.011
Alcohol $\perp$ SES	0.08	0.01
Asthma $\perp$ HF BMI, MDD, Smoking, Stress	0.09	0.0096
BMI $\perp$ COPD Smoking	0.09	0.0095
COPD $\perp$ PPI	0.09	0.0093
Alcohol $\perp$ BMI PhysicalActivity, SES, Sex	-0.09	0.0083
PPI $\perp$ Stress	-0.09	0.0075
Alcohol $\perp$ BMI SES, Sex, Smoking, Stress	-0.09	0.0068
HF $\perp$ PPI Age, Alcohol, BMI, CKD, Diabetes, MDD, PhysicalActivity, SES, Sex, Smoking, Stress, Stroke	0.09	0.0061
HouseholdSize $\perp$ PPI	-0.1	0.0029
HouseholdSize $\perp$ PhysicalActivity	0.12	0.00032
HouseholdSize $\perp$ Sex	-0.12	0.00031
PhysicalActivity $\perp$ Sex SES, Smoking, Stress	0.12	0.00028
SES $\perp$ Sex	-0.13	<0.0001
PPI $\perp$ SES	-0.15	<0.0001
Age $\perp$ Stress	0.16	<0.0001
BMI $\perp$ PPI	0.18	<0.0001

Implied conditional independencies	Estimate	p-value
Diabetes $\perp$ PPI	0.19	<0.0001
Age $\perp$ HouseholdSize	-0.25	<0.0001

Only conditional independencies between measured variables were tested.