Additional file 3

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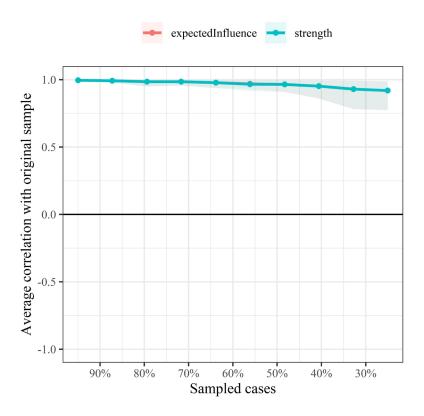


Figure S26 The stability of centrality indices for the network of insomnia without covariates using case-dropping bootstrap.

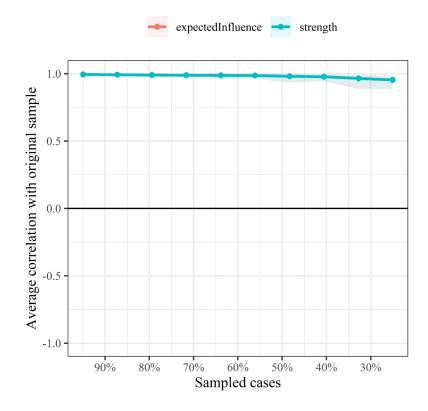


Figure S27. The stability of centrality indices for the network of insomnia and associated personality without covariates using case-dropping bootstrap.

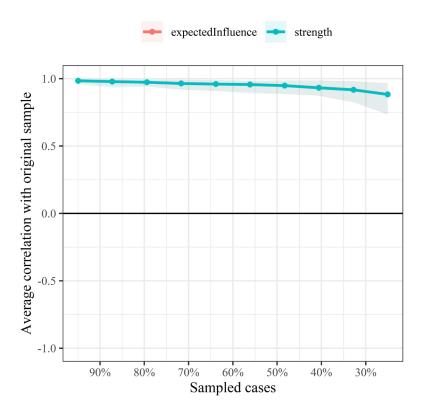


Figure S28. The stability of centrality indices for the network of insomnia and associated interpersonal disturbance without covariates using case-dropping bootstrap.

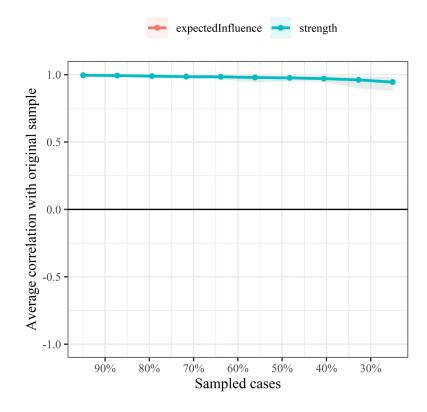


Figure S29. The stability of centrality indices for the network of insomnia and associated childhood trauma without covariates using case-dropping bootstrap.

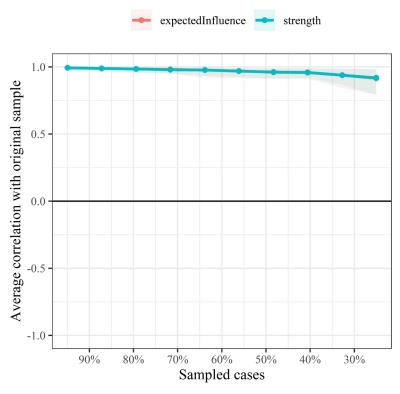


Figure S30. The stability of centrality indices for the network of insomnia and associated social support without covariates using case-dropping bootstrap.

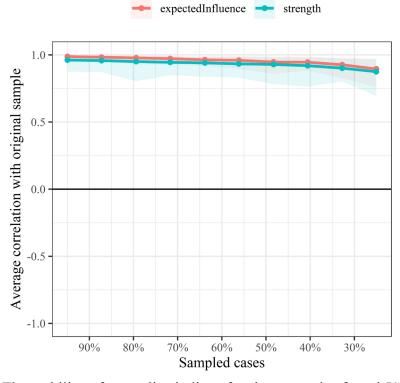


Figure S31. The stability of centrality indices for the network of total ISI score and associated integrated psychosocial factors without covariates using case-dropping bootstrap.

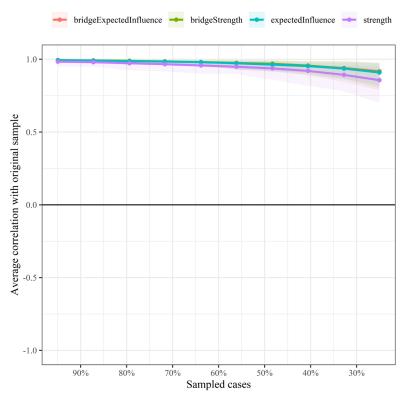


Figure S32. The stability of centrality indices for the network of insomnia symptoms and associated integrated psychosocial factors without covariates using case-dropping bootstrap.

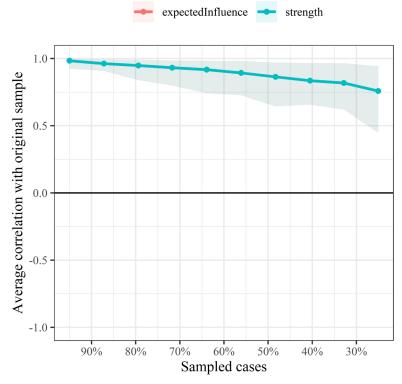


Figure S33. The stability of centrality indices for the network of insomnia with covariates using case-dropping bootstrap.

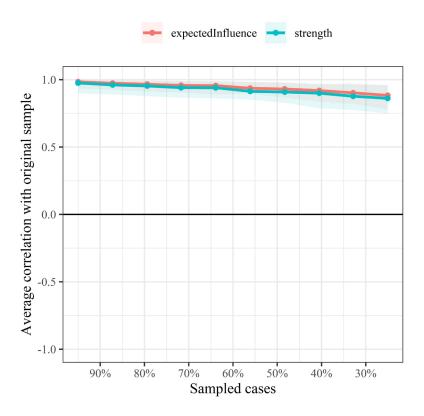


Figure S34. The stability of centrality indices for the network of insomnia and associated personality with covariates using case-dropping bootstrap.

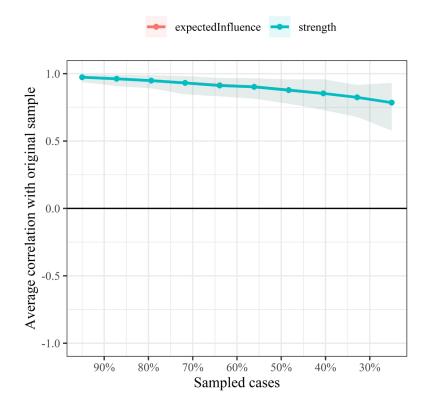


Figure S35. The stability of centrality indices for the network of insomnia and associated interpersonal disturbance with covariates using case-dropping bootstrap.

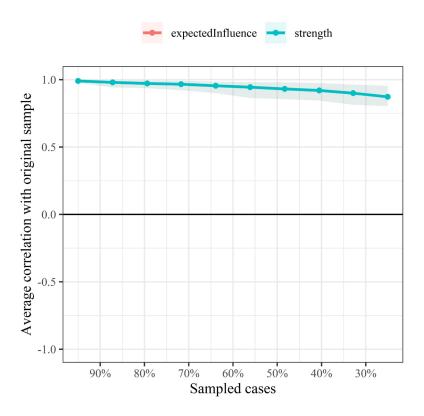


Figure S36. The stability of centrality indices for the network of insomnia and associated childhood trauma with covariates using case-dropping bootstrap.

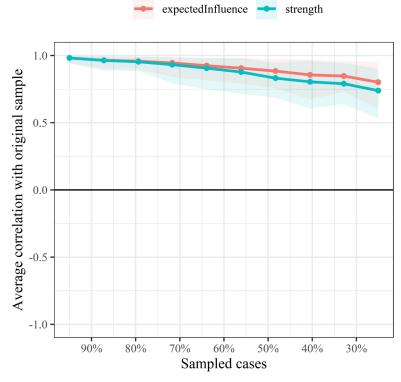


Figure S37. The stability of centrality indices for the network of insomnia and associated social support with covariates using case-dropping bootstrap.

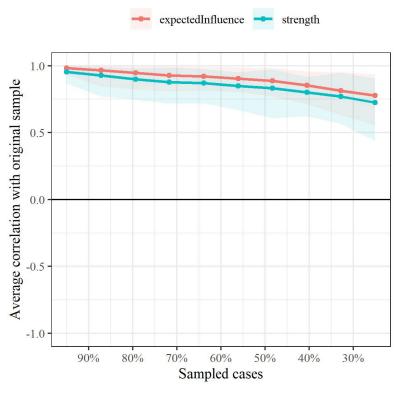


Figure S38. The stability of centrality indices for the network of total ISI score and associated integrated psychosocial factors with covariates using case-dropping bootstrap.

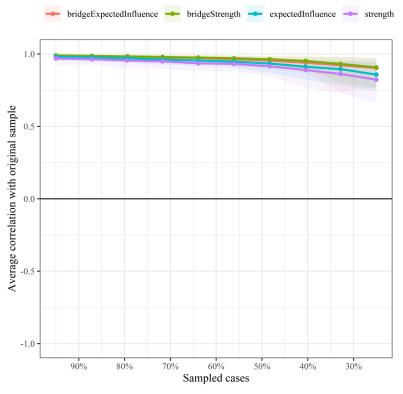
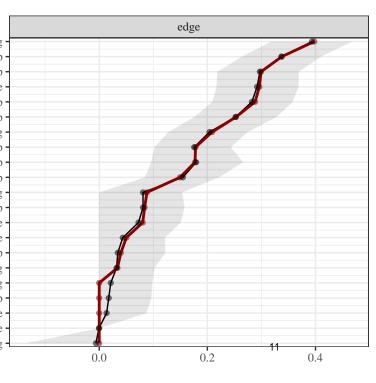
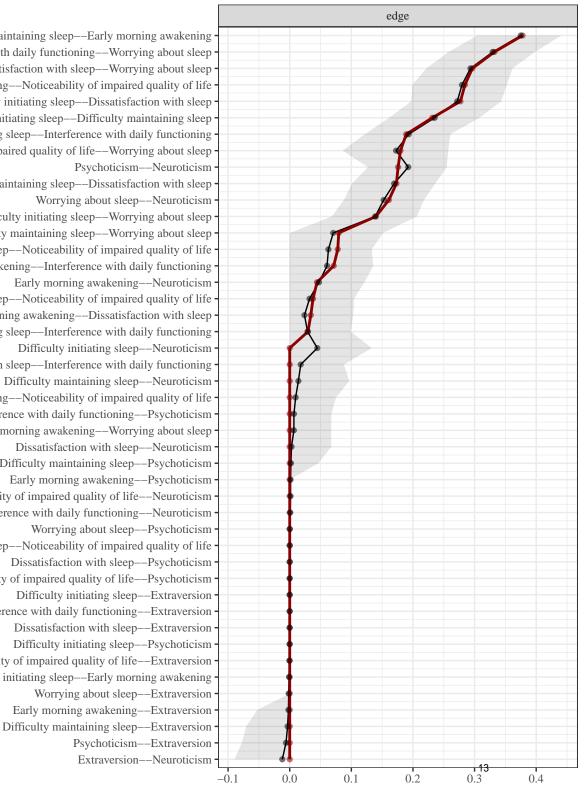


Figure S39. The stability of centrality indices for the network of insomnia symptoms and associated integrated psychosocial factors with covariates using case-dropping bootstrap.

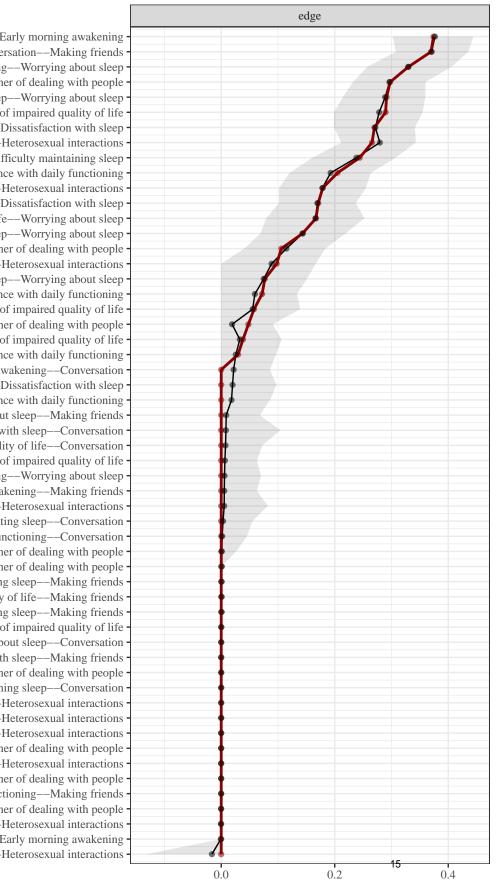


Difficulty maintaining sleep--Early morning awakening · Interference with daily functioning--Worrying about sleep -Dissatisfaction with sleep--Worrying about sleep -Interference with daily functioning--Noticeability of impaired quality of life -Difficulty initiating sleep--Dissatisfaction with sleep -Difficulty initiating sleep-Difficulty maintaining sleep -Difficulty initiating sleep--Interference with daily functioning -Difficulty maintaining sleep--Dissatisfaction with sleep Noticeability of impaired quality of life--Worrying about sleep -Difficulty initiating sleep--Worrying about sleep -Early morning awakening--Interference with daily functioning · Difficulty maintaining sleep--Worrying about sleep -Dissatisfaction with sleep--Noticeability of impaired quality of life -Difficulty maintaining sleep--Noticeability of impaired quality of life -Early morning awakening--Dissatisfaction with sleep. Difficulty maintaining sleep--Interference with daily functioning -Dissatisfaction with sleep--Interference with daily functioning -Early morning awakening--Worrying about sleep -Early morning awakening--Noticeability of impaired quality of life -Difficulty initiating sleep--Noticeability of impaired quality of life -Difficulty initiating sleep--Early morning awakening - Figure S40. Bootstrapped confidence intervals of estimated edge-weights for the network of insomnia without covariates.



Difficulty maintaining sleep--Early morning awakening Interference with daily functioning--Worrying about sleep Dissatisfaction with sleep—Worrying about sleep Interference with daily functioning--Noticeability of impaired quality of life Difficulty initiating sleep--Dissatisfaction with sleep Difficulty initiating sleep--Difficulty maintaining sleep Difficulty initiating sleep—Interference with daily functioning Noticeability of impaired quality of life--Worrying about sleep Difficulty maintaining sleep--Dissatisfaction with sleep Difficulty initiating sleep--Worrying about sleep Difficulty maintaining sleep--Worrying about sleep Dissatisfaction with sleep--Noticeability of impaired quality of life Early morning awakening--Interference with daily functioning Difficulty maintaining sleep--Noticeability of impaired quality of life Early morning awakening-Dissatisfaction with sleep Difficulty maintaining sleep--Interference with daily functioning Dissatisfaction with sleep--Interference with daily functioning Difficulty maintaining sleep--Neuroticism Early morning awakening--Noticeability of impaired quality of life Interference with daily functioning--Psychoticism Early morning awakening--Worrying about sleep Difficulty maintaining sleep--Psychoticism Early morning awakening--Psychoticism Noticeability of impaired quality of life--Neuroticism Interference with daily functioning--Neuroticism Difficulty initiating sleep--Noticeability of impaired quality of life Dissatisfaction with sleep--Psychoticism Noticeability of impaired quality of life--Psychoticism Interference with daily functioning--Extraversion Difficulty initiating sleep--Psychoticism Noticeability of impaired quality of life--Extraversion Difficulty initiating sleep--Early morning awakening Early morning awakening--Extraversion

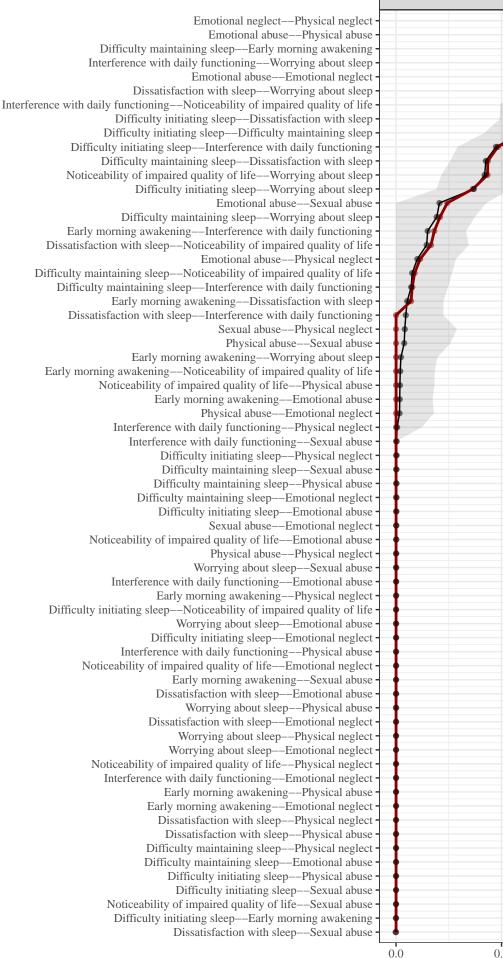
Figure S41. Bootstrapped confidence intervals of estimated edge-weights for the network of insomnia and associated personality without covariates.



Difficulty maintaining sleep--Early morning awakening Conversation--Making friends Interference with daily functioning--Worrying about sleep Making friends--Manner of dealing with people Dissatisfaction with sleep--Worrying about sleep Interference with daily functioning--Noticeability of impaired quality of life Difficulty initiating sleep--Dissatisfaction with sleep Conversation--Heterosexual interactions Difficulty initiating sleep--Difficulty maintaining sleep Difficulty initiating sleep--Interference with daily functioning Making friends--Heterosexual interactions Difficulty maintaining sleep--Dissatisfaction with sleep Noticeability of impaired quality of life--Worrying about sleep Difficulty initiating sleep--Worrying about sleep Conversation--Manner of dealing with people Manner of dealing with people--Heterosexual interactions Difficulty maintaining sleep--Worrying about sleep Early morning awakening--Interference with daily functioning Dissatisfaction with sleep--Noticeability of impaired quality of life Interference with daily functioning--Manner of dealing with people Difficulty maintaining sleep--Noticeability of impaired quality of life Difficulty maintaining sleep--Interference with daily functioning Early morning awakening--Conversation Early morning awakening--Dissatisfaction with sleep Dissatisfaction with sleep--Interference with daily functioning Worrying about sleep--Making friends Dissatisfaction with sleep--Conversation Noticeability of impaired quality of life--Conversation Early morning awakening--Noticeability of impaired quality of life Early morning awakening--Worrying about sleep Early morning awakening--Making friends Worrying about sleep--Heterosexual interactions Difficulty initiating sleep--Conversation Interference with daily functioning--Conversation Worrying about sleep--Manner of dealing with people Difficulty maintaining sleep--Manner of dealing with people Difficulty maintaining sleep--Making friends Noticeability of impaired quality of life--Making friends Difficulty initiating sleep--Making friends Difficulty initiating sleep--Noticeability of impaired quality of life Worrying about sleep--Conversation Dissatisfaction with sleep--Making friends Noticeability of impaired quality of life--Manner of dealing with people Difficulty maintaining sleep--Conversation Interference with daily functioning--Heterosexual interactions Difficulty initiating sleep--Heterosexual interactions Early morning awakening--Heterosexual interactions Difficulty initiating sleep—Manner of dealing with people Noticeability of impaired quality of life--Heterosexual interactions Dissatisfaction with sleep--Manner of dealing with people Interference with daily functioning--Making friends Early morning awakening--Manner of dealing with people Difficulty maintaining sleep--Heterosexual interactions Difficulty initiating sleep--Early morning awakening Dissatisfaction with sleep--Heterosexual interactions

Figure S42. Bootstrapped confidence intervals of estimated edge-weights for the network of insomnia and associated interpersonal disturbance without covariates. Notes: The gray area represents the bootstrapped confidence intervals (CIs). The vertical axis represents the edges between each pair of nodes while the horizontal axis represents the edge weight.

Bootstrap mean Sample



edge 0.2 0.4 0.6 Figure S43. Bootstrapped confidence intervals of estimated edge-weights for the network of insomnia and associated childhood trauma without covariates.

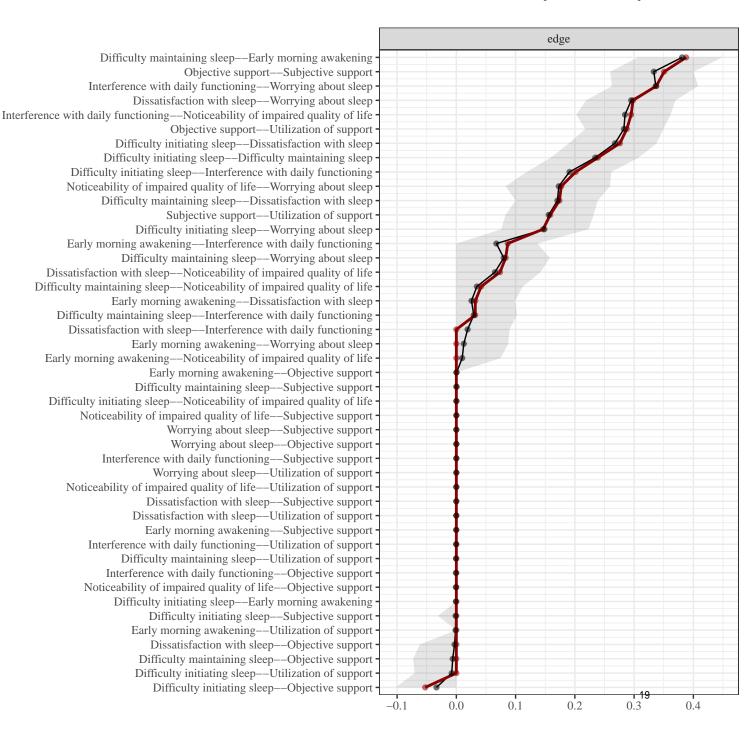


Figure S44. Bootstrapped confidence intervals of estimated edge-weights for the network of insomnia and associated social support without covariates.

Bootstrap mean Sample

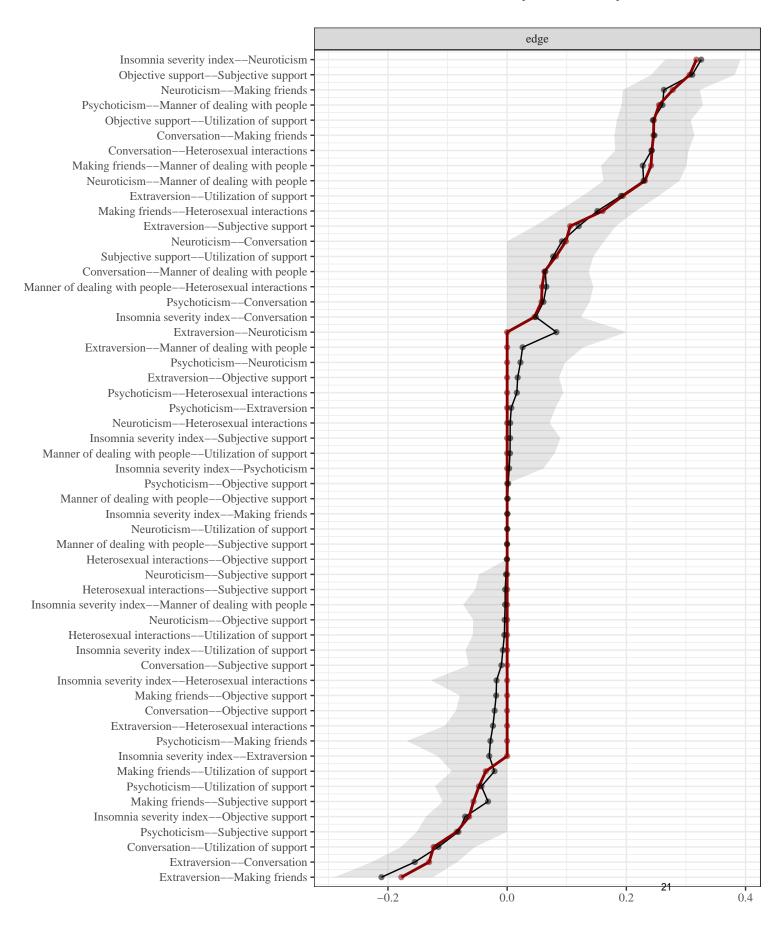


Figure S45. Bootstrapped confidence intervals of estimated edge-weights for the network of total ISI score and associated integrated psychosocial factors without covariates.



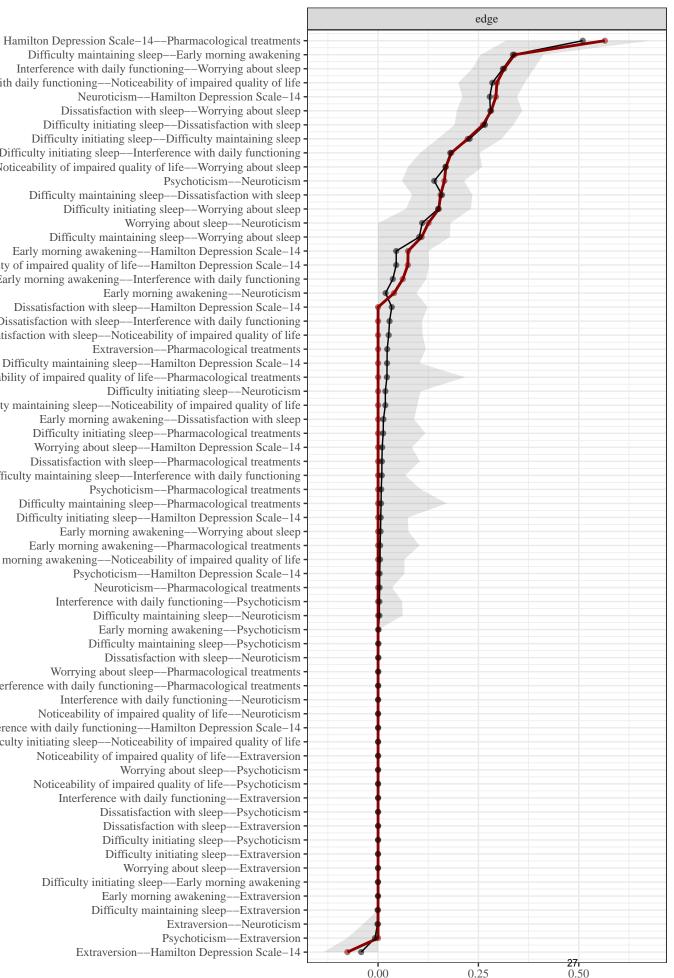
Difficulty maintaining sleep--Early morning awakening Interference with daily functioning--Worrying about sleep Objective support--Subjective support Dissatisfaction with sleep--Worrying about sleep Interference with daily functioning--Noticeability of impaired quality of life Difficulty initiating sleep--Dissatisfaction with sleep Conversation--Making friends Neuroticism——Making friends Psychoticism--Manner of dealing with people Neuroticism--Manner of dealing with people Difficulty initiating sleep--Difficulty maintaining sleep Conversation--Heterosexual interactions Objective support--Utilization of support Making friends--Manner of dealing with people Difficulty initiating sleep--Interference with daily functioning Extraversion--Utilization of support Noticeability of impaired quality of life--Worrying about sleep Difficulty maintaining sleep--Dissatisfaction with sleep Difficulty initiating sleep--Worrying about sleep Making friends--Heterosexual interactions Worrying about 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Figure S46. Bootstrapped confidence intervals of estimated edge-weights for the network of insomnia symptoms and associated integrated psychosocial factors without covariates.

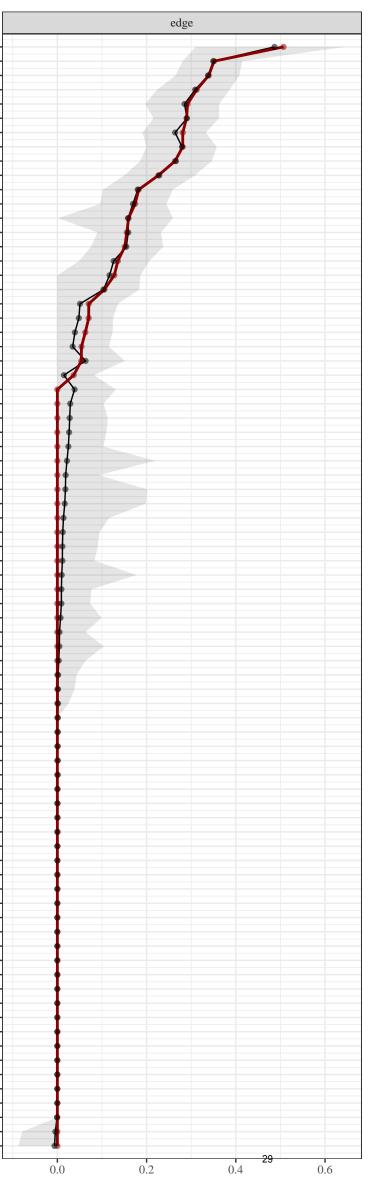
edge Hamilton Depression Scale–14––Pharmacological treatments Difficulty maintaining sleep—Early morning awakening Interference with daily functioning--Worrying about sleep Interference with daily functioning--Noticeability of impaired quality of life Dissatisfaction with sleep--Worrying about sleep Difficulty initiating sleep--Dissatisfaction with sleep Difficulty initiating sleep-Difficulty maintaining sleep Difficulty initiating sleep--Interference with daily functioning Noticeability of impaired quality of life--Worrying about sleep Difficulty initiating sleep--Worrying about sleep Difficulty maintaining sleep--Dissatisfaction with sleep Difficulty maintaining sleep--Worrying about sleep Early morning awakening--Hamilton Depression Scale-14 Noticeability of impaired quality of life--Hamilton Depression Scale-14 Worrying about sleep--Hamilton Depression Scale-14 Early morning awakening--Interference with daily functioning Dissatisfaction with sleep--Hamilton Depression Scale-14 Difficulty maintaining sleep--Hamilton Depression Scale-14 Dissatisfaction with sleep--Interference with daily functioning Noticeability of impaired quality of life--Pharmacological treatments Dissatisfaction with sleep--Noticeability of impaired quality of life Difficulty initiating sleep--Pharmacological treatments Difficulty maintaining sleep--Noticeability of impaired quality of life Difficulty maintaining sleep--Pharmacological treatments Early morning awakening-Dissatisfaction with sleep Difficulty initiating sleep--Hamilton Depression Scale-14 Dissatisfaction with sleep--Pharmacological treatments Difficulty maintaining sleep--Interference with daily functioning Early morning awakening--Pharmacological treatments Early morning awakening--Worrying about sleep Early morning awakening--Noticeability of impaired quality of life Interference with daily functioning--Hamilton Depression Scale-14 · Worrying about sleep--Pharmacological treatments Interference with daily functioning--Pharmacological treatments Difficulty initiating sleep--Noticeability of impaired quality of life · Difficulty initiating sleep--Early morning awakening 25 0.2 0.4 0.6 0.0

Figure S47. Bootstrapped confidence intervals of estimated edge-weights for the network of insomnia with covariates.

Bootstrap mean Sample



Difficulty maintaining sleep—Early morning awakening Interference with daily functioning--Worrying about sleep Interference with daily functioning--Noticeability of impaired quality of life Neuroticism--Hamilton Depression Scale-14 Dissatisfaction with sleep--Worrying about sleep Difficulty initiating sleep--Dissatisfaction with sleep Difficulty initiating sleep-Difficulty maintaining sleep Difficulty initiating sleep--Interference with daily functioning Noticeability of impaired quality of life--Worrying about sleep Difficulty maintaining sleep--Dissatisfaction with sleep Difficulty initiating sleep--Worrying about sleep Worrying about sleep--Neuroticism Difficulty maintaining sleep--Worrying about sleep Early morning awakening--Hamilton Depression Scale-14 Noticeability of impaired quality of life--Hamilton Depression Scale-14 Early morning awakening--Interference with daily functioning Early morning awakening--Neuroticism Dissatisfaction with sleep--Hamilton Depression Scale-14 Dissatisfaction with sleep--Interference with daily functioning Dissatisfaction with sleep--Noticeability of impaired quality of life Extraversion--Pharmacological treatments Difficulty maintaining sleep--Hamilton Depression Scale-14 Noticeability of impaired quality of life--Pharmacological treatments Difficulty initiating sleep--Neuroticism Difficulty maintaining sleep--Noticeability of impaired quality of life Early morning awakening--Dissatisfaction with sleep Difficulty initiating sleep--Pharmacological treatments Worrying about sleep--Hamilton Depression Scale-14 Dissatisfaction with sleep--Pharmacological treatments Difficulty maintaining sleep--Interference with daily functioning Psychoticism--Pharmacological treatments Difficulty maintaining sleep--Pharmacological treatments Difficulty initiating sleep--Hamilton Depression Scale-14 Early morning awakening--Worrying about sleep Early morning awakening--Pharmacological treatments Early morning awakening--Noticeability of impaired quality of life Psychoticism--Hamilton Depression Scale-14 Neuroticism--Pharmacological treatments Interference with daily functioning--Psychoticism Difficulty maintaining sleep--Neuroticism Early morning awakening--Psychoticism Difficulty maintaining sleep--Psychoticism Dissatisfaction with sleep--Neuroticism Worrying about sleep--Pharmacological treatments Interference with daily functioning--Pharmacological treatments Interference with daily functioning--Neuroticism Noticeability of impaired quality of life--Neuroticism Interference with daily functioning--Hamilton Depression Scale-14 Difficulty initiating sleep--Noticeability of impaired quality of life Noticeability of impaired quality of life--Extraversion Worrying about sleep--Psychoticism Noticeability of impaired quality of life--Psychoticism Interference with daily functioning--Extraversion Dissatisfaction with sleep--Psychoticism Dissatisfaction with sleep--Extraversion Difficulty initiating sleep--Psychoticism Difficulty initiating sleep--Extraversion Worrying about sleep--Extraversion Difficulty initiating sleep--Early morning awakening Early morning awakening--Extraversion Difficulty maintaining sleep--Extraversion Figure S48. Bootstrapped confidence intervals of estimated edge-weights for the network of insomnia and associated personality with covariates.



Hamilton Depression Scale-14--Pharmacological treatments Conversation--Making friends -Difficulty maintaining sleep--Early morning awakening Interference with daily functioning--Worrying about sleep Interference with daily functioning--Noticeability of impaired quality of life Making friends--Manner of dealing with people Conversation--Heterosexual interactions Dissatisfaction with sleep--Worrying about sleep Difficulty initiating sleep--Dissatisfaction with sleep Difficulty initiating sleep--Difficulty maintaining sleep Difficulty initiating sleep--Interference with daily functioning Making friends--Heterosexual interactions Noticeability of impaired quality of life--Worrying about sleep Difficulty maintaining sleep--Dissatisfaction with sleep Difficulty initiating sleep--Worrying about sleep Conversation--Manner of dealing with people Making friends--Hamilton Depression Scale-14 Difficulty maintaining sleep--Worrying about sleep Conversation--Hamilton Depression Scale-14 Early morning awakening--Hamilton Depression Scale-14 Noticeability of impaired quality of life--Hamilton Depression Scale-14 Early morning awakening--Interference with daily functioning Manner of dealing with people--Heterosexual interactions Early morning awakening--Conversation Dissatisfaction with sleep--Hamilton Depression Scale-14 Dissatisfaction with sleep--Interference with daily functioning Difficulty maintaining sleep--Hamilton Depression Scale-14 Worrying about sleep--Hamilton Depression Scale-14 Dissatisfaction with sleep--Noticeability of impaired quality of life Making friends--Pharmacological treatments Difficulty maintaining sleep--Noticeability of impaired quality of life Heterosexual interactions--Pharmacological treatments Noticeability of impaired quality of life--Pharmacological treatments Difficulty initiating sleep--Pharmacological treatments Manner of dealing with people--Hamilton Depression Scale-14 Difficulty initiating sleep--Hamilton Depression Scale-14 Early morning awakening--Dissatisfaction with sleep Difficulty maintaining sleep--Pharmacological treatments Interference with daily functioning--Manner of dealing with people Difficulty maintaining sleep--Interference with daily functioning Dissatisfaction with sleep--Pharmacological treatments Early morning awakening--Noticeability of impaired quality of life Early morning awakening--Pharmacological treatments Early morning awakening--Worrying about sleep Worrying about sleep--Making friends Difficulty maintaining sleep--Manner of dealing with people Conversation--Pharmacological treatments Early morning awakening--Making friends Noticeability of impaired quality of life--Conversation Worrying about sleep--Heterosexual interactions Dissatisfaction with sleep--Conversation Interference with daily functioning--Conversation Difficulty maintaining sleep--Making friends Difficulty initiating sleep--Conversation Interference with daily functioning--Pharmacological treatments Manner of dealing with people--Pharmacological treatments Worrying about sleep--Manner of dealing with people Interference with daily functioning--Hamilton Depression Scale-14 Early morning awakening--Heterosexual interactions Difficulty initiating sleep--Making friends Noticeability of impaired quality of life--Making friends Difficulty initiating sleep--Noticeability of impaired quality of life Worrying about sleep--Pharmacological treatments Difficulty initiating sleep--Heterosexual interactions Worrying about sleep--Conversation Noticeability of impaired quality of life--Manner of dealing with people Interference with daily functioning--Making friends Interference with daily functioning--Heterosexual interactions Dissatisfaction with sleep--Manner of dealing with people Dissatisfaction with sleep--Making friends Difficulty maintaining sleep--Conversation Difficulty initiating sleep--Manner of dealing with people Early morning awakening--Manner of dealing with people Difficulty initiating sleep--Early morning awakening Difficulty maintaining sleep--Heterosexual interactions Noticeability of impaired quality of life--Heterosexual interactions

Heterosexual interactions—Hamilton Depression Scale–14 Dissatisfaction with sleep—Heterosexual interactions Figure S49. Bootstrapped confidence intervals of estimated edge-weights for the network of insomnia and associated interpersonal disturbance with covariates.

edge

0.4

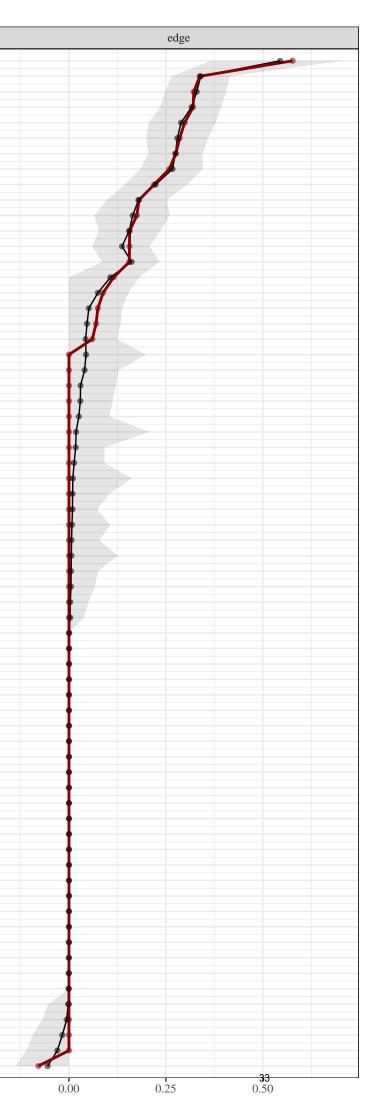
0.6

0.2

Emotional neglect--Physical neglect Hamilton Depression Scale-14--Pharmacological treatments Emotional abuse--Physical abuse Difficulty maintaining sleep--Early morning awakening Interference with daily functioning--Worrying about sleep Emotional abuse--Emotional neglect Interference with daily functioning--Noticeability of impaired quality of life Dissatisfaction with sleep--Worrying about sleep Difficulty initiating sleep--Dissatisfaction with sleep Difficulty initiating sleep--Difficulty maintaining sleep Difficulty initiating sleep--Interference with daily functioning Noticeability of impaired quality of life--Worrying about sleep Difficulty initiating sleep--Worrying about sleep Difficulty maintaining sleep--Dissatisfaction with sleep Difficulty maintaining sleep--Worrying about sleep Emotional abuse--Sexual abuse Early morning awakening--Hamilton Depression Scale-14 Noticeability of impaired quality of life--Hamilton Depression Scale-14 Worrying about sleep--Hamilton Depression Scale-14 Early morning awakening--Interference with daily functioning Emotional abuse--Physical neglect Dissatisfaction with sleep--Hamilton Depression Scale-14 Difficulty maintaining sleep--Hamilton Depression Scale-14 Dissatisfaction with sleep--Interference with daily functioning Sexual abuse--Physical neglect Dissatisfaction with sleep--Noticeability of impaired quality of life Emotional abuse--Hamilton Depression Scale-14 Difficulty maintaining sleep--Noticeability of impaired quality of life Early morning awakening--Dissatisfaction with sleep Noticeability of impaired quality of life--Pharmacological treatments Difficulty maintaining sleep--Interference with daily functioning Difficulty initiating sleep--Pharmacological treatments Dissatisfaction with sleep--Pharmacological treatments Difficulty initiating sleep--Hamilton Depression Scale-14 Physical abuse--Emotional neglect Physical abuse--Pharmacological treatments Difficulty maintaining sleep--Pharmacological treatments Sexual abuse--Pharmacological treatments Early morning awakening--Worrying about sleep Early morning awakening--Noticeability of impaired quality of life Physical abuse--Sexual abuse Early morning awakening--Emotional abuse Early morning awakening--Pharmacological treatments Physical neglect--Pharmacological treatments Emotional abuse--Pharmacological treatments Noticeability of impaired quality of life--Physical abuse Interference with daily functioning--Emotional abuse Interference with daily functioning--Physical neglect Physical neglect--Hamilton Depression Scale-14 Physical abuse--Hamilton Depression Scale-14 Interference with daily functioning--Hamilton Depression Scale-14 Difficulty maintaining sleep--Physical abuse Emotional neglect--Pharmacological treatments Interference with daily functioning--Sexual abuse Difficulty maintaining sleep--Emotional neglect Difficulty initiating sleep--Emotional abuse Sexual abuse--Emotional neglect Early morning awakening--Sexual abuse Worrying about sleep--Sexual abuse Difficulty initiating sleep--Noticeability of impaired quality of life Worrying about sleep--Emotional abuse Physical abuse--Physical neglect Noticeability of impaired quality of life--Emotional abuse Difficulty initiating sleep--Emotional neglect Sexual abuse--Hamilton Depression Scale-14 Worrying about sleep--Pharmacological treatments · Early morning awakening--Physical neglect Worrying about sleep--Physical neglect Worrying about sleep--Physical abuse Worrying about sleep--Emotional neglect Noticeability of impaired quality of life--Sexual abuse · Noticeability of impaired quality of life--Physical neglect Noticeability of impaired quality of life--Emotional neglect Interference with daily functioning--Physical abuse Interference with daily functioning--Pharmacological treatments Interference with daily functioning--Emotional neglect Emotional neglect--Hamilton Depression Scale-14 Early morning awakening--Physical abuse Early morning awakening--Emotional neglect Dissatisfaction with sleep--Physical neglect · Dissatisfaction with sleep--Physical abuse Dissatisfaction with sleep--Emotional neglect Dissatisfaction with sleep--Emotional abuse Difficulty maintaining sleep--Sexual abuse Difficulty maintaining sleep--Physical neglect · Difficulty maintaining sleep—Emotional abuse Difficulty initiating sleep—Sexual abuse Difficulty initiating sleep--Physical neglect Difficulty initiating sleep--Physical abuse Difficulty initiating sleep--Early morning awakening Dissatisfaction with sleep--Sexual abuse

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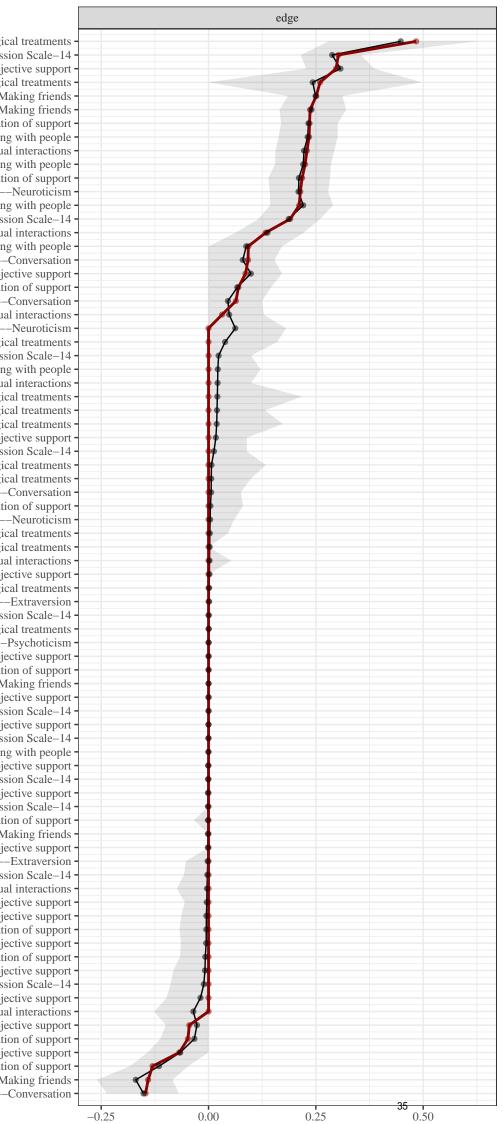
Figure S50. Bootstrapped confidence intervals of estimated edge-weights for the network of insomnia and associated childhood trauma with covariates.



Hamilton Depression Scale-14--Pharmacological treatments Difficulty maintaining sleep--Early morning awakening Objective support--Subjective support Interference with daily functioning--Worrying about sleep Interference with daily functioning--Noticeability of impaired quality of life Dissatisfaction with sleep--Worrying about sleep Objective support--Utilization of support-Difficulty initiating sleep--Dissatisfaction with sleep Difficulty initiating sleep-Difficulty maintaining sleep Difficulty initiating sleep--Interference with daily functioning Noticeability of impaired quality of life--Worrying about sleep Difficulty initiating sleep--Worrying about sleep Subjective support--Utilization of support Difficulty maintaining sleep--Dissatisfaction with sleep Difficulty maintaining sleep--Worrying about sleep Early morning awakening--Hamilton Depression Scale-14 Noticeability of impaired quality of life--Hamilton Depression Scale-14 Worrying about sleep--Hamilton Depression Scale-14 Early morning awakening--Interference with daily functioning Objective support--Pharmacological treatments Dissatisfaction with sleep--Hamilton Depression Scale-14 Difficulty maintaining sleep--Hamilton Depression Scale-14 Dissatisfaction with sleep--Interference with daily functioning Dissatisfaction with sleep--Noticeability of impaired quality of life Noticeability of impaired quality of life--Pharmacological treatments Difficulty maintaining sleep--Noticeability of impaired quality of life Early morning awakening--Dissatisfaction with sleep Difficulty maintaining sleep--Pharmacological treatments Dissatisfaction with sleep--Pharmacological treatments Difficulty maintaining sleep--Interference with daily functioning Difficulty initiating sleep--Pharmacological treatments Early morning awakening--Worrying about sleep Early morning awakening--Pharmacological treatments Difficulty initiating sleep--Hamilton Depression Scale-14 Early morning awakening--Noticeability of impaired quality of life Subjective support--Pharmacological treatments Utilization of support--Pharmacological treatments Early morning awakening--Objective support Early morning awakening--Subjective support Interference with daily functioning--Hamilton Depression Scale-14 Worrying about sleep--Pharmacological treatments Noticeability of impaired quality of life--Objective support Noticeability of impaired quality of life--Utilization of support Noticeability of impaired quality of life--Subjective support Worrying about sleep--Utilization of support Worrying about sleep--Subjective support Worrying about sleep--Objective support Interference with daily functioning--Subjective support Interference with daily functioning--Pharmacological treatments Dissatisfaction with sleep--Utilization of support Dissatisfaction with sleep--Subjective support Difficulty maintaining sleep--Subjective support Difficulty initiating sleep--Noticeability of impaired quality of life Difficulty initiating sleep--Early morning awakening Interference with daily functioning--Utilization of support Interference with daily functioning--Objective support Difficulty initiating sleep--Subjective support Early morning awakening--Utilization of support Dissatisfaction with sleep--Objective support Difficulty maintaining sleep--Utilization of support Objective support--Hamilton Depression Scale-14 Difficulty maintaining sleep--Objective support Difficulty initiating sleep--Utilization of support Difficulty initiating sleep--Objective support Utilization of support--Hamilton Depression Scale-14 Subjective support--Hamilton Depression Scale-14

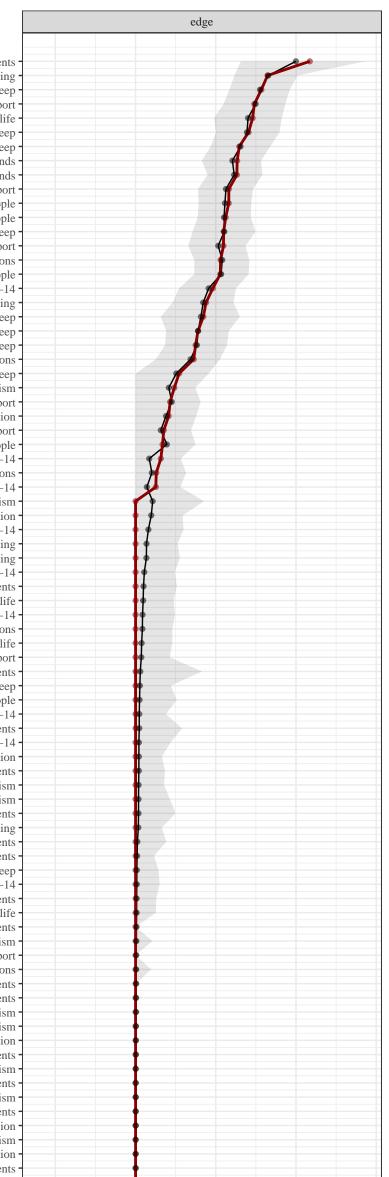
Figure S51. Bootstrapped confidence intervals of estimated edge-weights for the network of insomnia and associated social support with covariates.

Bootstrap mean • Sample



Hamilton Depression Scale-14--Pharmacological treatments Insomnia severity index--Hamilton Depression Scale-14 -Objective support--Subjective support-Insomnia severity index--Pharmacological treatments Neuroticism---Making friends Conversation--Making friends Objective support--Utilization of support Psychoticism--Manner of dealing with people Conversation--Heterosexual interactions Neuroticism--Manner of dealing with people Extraversion--Utilization of support Insomnia severity index--Neuroticism Making friends--Manner of dealing with people Neuroticism--Hamilton Depression Scale-14 Making friends--Heterosexual interactions Conversation---Manner of dealing with people Neuroticism--Conversation Extraversion--Subjective support Subjective support--Utilization of support Psychoticism--Conversation Manner of dealing with people--Heterosexual interactions Extraversion--Neuroticism Objective support--Pharmacological treatments Making friends--Hamilton Depression Scale-14 Extraversion--Manner of dealing with people Psychoticism--Heterosexual interactions Making friends--Pharmacological treatments Extraversion--Pharmacological treatments Psychoticism--Pharmacological treatments Extraversion--Objective support Conversation--Hamilton Depression Scale-14 Heterosexual interactions--Pharmacological treatments Subjective support--Pharmacological treatments Insomnia severity index--Conversation Manner of dealing with people--Utilization of support Psychoticism--Neuroticism Conversation--Pharmacological treatments Utilization of support--Pharmacological treatments Neuroticism--Heterosexual interactions Insomnia severity index--Subjective support Neuroticism--Pharmacological treatments Psychoticism--Extraversion Psychoticism--Hamilton Depression Scale-14 Manner of dealing with people--Pharmacological treatments · Insomnia severity index--Psychoticism Psychoticism--Objective support Neuroticism--Utilization of support Insomnia severity index--Making friends Manner of dealing with people--Objective support Manner of dealing with people--Hamilton Depression Scale-14 Manner of dealing with people--Subjective support Objective support--Hamilton Depression Scale-14 Insomnia severity index--Manner of dealing with people Heterosexual interactions--Objective support Heterosexual interactions--Hamilton Depression Scale-14 Neuroticism--Subjective support Extraversion--Hamilton Depression Scale-14 Heterosexual interactions--Utilization of support Psychoticism--Making friends Neuroticism--Objective support Insomnia severity index--Extraversion Utilization of support--Hamilton Depression Scale-14 Insomnia severity index--Heterosexual interactions Making friends--Objective support Conversation-Subjective support Insomnia severity index--Utilization of support Heterosexual interactions--Subjective support Making friends--Utilization of support Making friends--Subjective support Subjective support--Hamilton Depression Scale-14 Insomnia severity index--Objective support Extraversion--Heterosexual interactions Conversation--Objective support Psychoticism--Utilization of support Psychoticism--Subjective support Conversation--Utilization of support Extraversion--Making friends Extraversion--Conversation

Figure S52. Bootstrapped confidence intervals of estimated edge-weights for the network of total ISI score and associated integrated psychosocial factors with covariates. Notes: The gray area represents the bootstrapped confidence intervals (CIs). The vertical axis represents the edges between each pair of nodes while the horizontal axis represents the edge weight.



Hamilton Depression Scale-14--Pharmacological treatments Difficulty maintaining sleep--Early morning awakening Interference with daily functioning--Worrying about sleep Objective support--Subjective support Interference with daily functioning--Noticeability of impaired quality of life Dissatisfaction with sleep--Worrying about sleep Difficulty initiating sleep--Dissatisfaction with sleep Conversation--Making friends Neuroticism--Making friends Objective support--Utilization of support Psychoticism--Manner of dealing with people Neuroticism——Manner of dealing with people Difficulty initiating sleep--Difficulty maintaining sleep Extraversion--Utilization of support Conversation--Heterosexual interactions Making friends--Manner of dealing with people Neuroticism--Hamilton Depression Scale-14 Difficulty initiating sleep--Interference with daily functioning Noticeability of impaired quality of life--Worrying about sleep Difficulty maintaining sleep-Dissatisfaction with sleep Difficulty 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sleep--Extraversion Difficulty maintaining sleep--Utilization of support Difficulty maintaining sleep--Subjective support Difficulty maintaining sleep--Manner of dealing with people Difficulty maintaining sleep--Heterosexual interactions Difficulty maintaining sleep—Conversation Difficulty initiating sleep—Psychoticism Difficulty initiating sleep--Noticeability of impaired quality of life Difficulty initiating sleep--Manner of dealing with people Difficulty initiating sleep--Making friends Difficulty initiating sleep--Heterosexual interactions Difficulty initiating sleep--Extraversion Difficulty initiating sleep—Early morning awakening Difficulty initiating sleep--Conversation Worrying about sleep--Extraversion Interference with daily functioning--Utilization of support Interference with daily functioning--Objective support Dissatisfaction with sleep--Objective support Manner of dealing with people--Subjective support Early morning awakening--Manner of dealing with people Difficulty initiating sleep--Subjective support Objective support--Hamilton Depression Scale-14 Neuroticism--Subjective support Noticeability of impaired quality of life--Heterosexual interactions Psychoticism--Making friends Difficulty maintaining sleep--Extraversion Difficulty maintaining sleep--Objective support Heterosexual interactions--Hamilton Depression Scale-14 Neuroticism--Objective support Heterosexual interactions--Objective support Extraversion--Hamilton Depression Scale-14 Heterosexual interactions--Utilization of support Utilization of support--Hamilton Depression Scale-14 Difficulty initiating sleep--Utilization of support Making friends--Objective support Heterosexual interactions--Subjective support · Conversation--Subjective support Making friends--Utilization of support Dissatisfaction with sleep--Heterosexual interactions

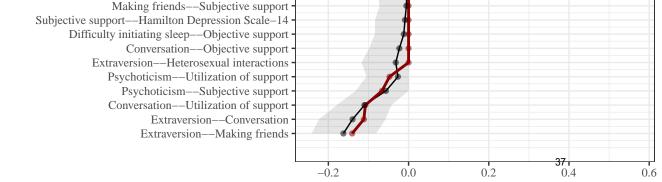


Figure S53. Bootstrapped confidence intervals of estimated edge-weights for the network of insomnia symptoms and associated integrated psychosocial factors with covariates.