

The Association Between Migraine And Depression Based On MiRNA Biomarkers And Cohort Studies.

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Abstract:

Background: An association between migraine and Major Depression (MD) has been revealed in many clinical studies. Both diseases affect a large proportion of the global population. More understanding on the comorbidity mechanism of these two diseases can shed light on developing new therapies for both diseases.

Methods: To the best of our knowledge, there have not been any researches in the literature based on microRNA (miRNA) biomarkers to investigate the relationship between MD and migraine. In this study, we discuss the association of these two diseases based on their miRNA biomarkers. In addition to miRNA biomarkers, we also demonstrate epidemiological evidence for their association based on Taiwan Biobank (TWB) data.

Results: Among the 12 migraine miRNA biomarkers, 11 of them are related to MD. Only miR-181a has no direct evidence involved in the mechanism of MD. In addition to the biological biomarker evidence, the statistical analysis using the largescale epidemiologic data collected from TWB provides strong evidence on the relationship between MD and migraine.

Conclusions: The evidence based on both molecular and epidemiological data reveals the significant association between MD and migraine. This result can help investigate the correlated underlying mechanism of these two diseases.



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