

**Applicant**

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**Project Title**

The change of depression status and atherosclerosis process in the CLSA participants

**Project Summary**

One of the leading cause of deaths in Canada is Cardiovascular disease (CVD), which is the results of atherosclerosis in blood vessels. The measure of carotid intima media thickness (c-IMT) is used as a proxy indicator of atherosclerosis. CVD is strongly associated with depression, but what is the potential mechanism is unknown. A few studies' results suggest that the presence of depressive symptoms was associated with c-IMT. However, no study has explored if the change of depression status has affected the atherosclerosis process. Using the baseline and the first follow-up data of the CLSA we will examine whether atherosclerosis process is associated with the change of depression status and non-HDL cholesterol. The results from this study may shed a light on our understanding the possible mechanism of atherosclerosis process.

**Keywords**

c-IMT, CLSA, Depression, Non-HDL