



## Current Research Studies on Atherosclerosis

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### About the Study

In our current issue of atherosclerosis: Open access Journal, eminent authors played a vital role in contributing their studies in the field of cardiology. With the support of editorial board members, reviewers, authors and readers of our journal, we have successfully running 6 volumes. Journal aims to provide the rapid and reliable information in the form of research, review, short communication and case reports. In the current issue, scientists were given detailed information on current scenario of COVID-19 effects on cardiac patients, atherosclerosis and their health managements.

Role of Omega Fatty Acids in Atherosclerosis and Coronary Artery Disease explained by Ruth Prabhu in his study. He focused on the popularized study of Omega-3 long chain Polyunsaturated Fatty Acids (PUFAs). PUFAs lower the high density lipoproteins in the blood. Preferably consuming food rich in polyunsaturated fatty acids protects the heart from blocks (atherosclerosis) and coronary artery diseases. Author concluded the role of PUFA and its functioning in lipid metabolic pathways in his study [1].

The COVID-19 System: A translational meta-synthesis for cardiac rehabilitation and preventive study was explained by Wolfgang Mastnak. Author selected the cardiac patients as subjects during the COVID-19 pandemic condition. In his study author took the parameters of cardiac patients like eating behaviors, life style modifications in COVID-19 pandemic. During COVID-19 pandemic cardiac patients experienced a loneliness environment, alcoholic abuse, sedentary lifestyle habitat are more potential to the cardiac complication, moreover these are the potential groups who expose to COVID-19 symptoms and their recovery period was very high when compared with the normal individuals. Author evaluated the condition and suggested the factors how to overcome the aggressive COVID-19 pandemic condition [2].

Katsutoshi Miura suggested histological and mechanical information based on biochemical alterations of cardiovascular diseases using scanning acoustic microscopy with proteinases: A

novel technique for cardiovascular research. Author described about the morphology and the structure of the valves not only in the atherosclerosis condition but also during aging, myocardial infarction, cardiac valve dysfunction, and mechanical rupture. In his study, based on the SOS values the state of the condition is explained. If the SOS values are less, due to the formation of ruptured or atherosclerosis the role of proteinase enzyme decreased on the valves therefore it directly proportional to the reduced in SOS values. In this study author concluded the condition of the heart by using the Scanning Acoustic Microscopy [SAM] [3].

Elkilany GEN, et al. explained about the study of advanced carotid atherosclerosis and the risk of subsequent major cardiovascular events: Carotid ultrasound study. In his study, he focused on the Major Cardiovascular Events (MCVE) of heart in detecting the atherosclerosis and morphology of the plaque. Author study states that TPA and US evidences can predict cardiovascular events in atherosclerotic plaques condition. These techniques may also use to diagnose the asymptomatic cardiovascular diseases in his clinical investigation study [4].

### References

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4. Elkilany GEN, Elmahal M, Elsaady A, Singh J, Lohana P et al. (2021) Advanced carotid atherosclerosis and the risk of subsequent major cardiovascular events: Carotid ultrasound study. *Atheroscler Open Access* 6(2):1-5.