



Centre for
Heart Lung Innovation
UBC and St. Paul's Hospital

Centre for Heart Lung Innovation Research in Progress (R.I.P.)



Plasma lipid abnormalities in muscular dystrophies: a systematic review and meta-analysis

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Monday, Nov 21st, 2022
9:00 – 10:00 a.m.

Gourlay Conference RM 103
Zoom Video Conference
(Meeting ID: 693 1997 7044; Passcode: 030679)

“Lipoprotein abnormalities are linked to many pathologies, such as cardiovascular diseases. We have previously reported on unexpectedly high prevalence of dyslipidemia in patients and animals with Duchenne muscular dystrophy, a lethal muscular disorder characterized by progressive muscle weakness. The possibility of high prevalence of dyslipidemia in patients afflicted by the 40 other types of MDs has not been investigated. Herein, we performed a systematic review and a meta-analysis to compare plasma lipids profile between patients with different types of MDs and non-muscular dystrophic controls. Search was conducted using MEDLINE, EMBASE, Cochrane Central Register of Controlled Trials. Studies reporting plasma/serum lipid profile were included. Out of 750 initial studies, seventeen studies were included and meta-analyzed. Muscular dystrophic individuals had significantly higher levels of plasma total cholesterol compared to controls. Meta-regression analysis revealed the percentage of male gender to significantly influence the results. We found evidence that overall, muscular dystrophy is associated with higher plasma total cholesterol. Further longitudinal research is required to disentangle and better understand this topic.”

This event is a Self-Approved Group Learning Activity as defined by the Maintenance Certification Program of the Royal College of Physicians and Surgeons of Canada



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