3.1: THE EFFECTS OF ANTICONTRACTILE PROPERTY OF PERIVASCULAR ADIPOSE TISSUE IN OBESE MICE


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O. V. Fedorova 2, A. Y. Bagrov 2

10-5 Mol/l) was evaluated in vessels with intact prerivascular fat tissue (WF)

THE ENDOGENOUS NA,K-ATPASE LIGAND, MARINOBUFAGENIN, INDUCES

NACL-LOADED DIABETIC RATS

THE EFFECTS OF ANTICONTRACTILE PROPERTY OF PERIVASCULAR ADIPOSE TISSUE IN OBSESE MICE

C. Agabiti Rosei 1, C. De Ciuceis 1, C. Rossini 1, E. Porteri 1, R. Rezzani 2, L. F. Rodella 2, A. M. Heagerty 3, D. Rizzoni 1, E. Agabiti Rosei 1

Clinica Medica, Department of Medical and Surgical Sciences, University of Brescia, Italy

Chair of Human Anatomy, University of Brescia, Italy

Cardiovascular Research Group, Core Technology Facility, University of Manchester, United Kingdom

It’s known that perivascular adipose tissue (PVAT) has an anticontractile effect maybe mediated by adiponectin, a physiological modulator of local vascular tone with mechanism still unknown. The PVAT function is lost in obese patients with the development of adipocyte hypertrophy, hypoxia, inflammation and oxidative stress (Circulation 2009; 119(12):1661-1670). The aim of the study was to investigate functional responses of small mesenteric arteries in a animal model of genetic obesity.

Materials and Methods: we investigated 8 obese mice(B6.V-Lep ob/OlaHsd, ob/ob) and 8 lean control mice (C57BL/6J, C57BL). Mesenteric small resistance arteries (internal diameter about 200 μm) were dissected and mounted on a wire myograph. A concentration-response curve to norepinephrine (NE, from 10^{-9} to 10^{-4} M) was evaluated in vessels with intact prerivascular fat tissue (WF) and in vessels in which perivascular fat tissue was removed (NoF) in basal conditions and during vasodilatation by sodium nitroprusside (10^{-3} M) and in vessels with perivascular fat tissue was removed (NoF) in basal conditions and during vasodilatation by sodium nitroprusside (10^{-3} M) and in vessels with perivascular fat tissue was removed (NoF) in basal conditions and during vasodilatation by sodium nitroprusside (10^{-3} M) and in vessels with perivascular fat tissue was removed (NoF) in basal conditions and during vasodilatation by sodium nitroprusside (10^{-3} M) and in vessels with perivascular fat tissue was removed (NoF) in basal conditions and during vasodilatation by sodium nitroprusside (10^{-3} M) and in vessels with perivascular fat tissue was removed (NoF) in basal conditions and during vasodilatation by sodium 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