

Estrogen And The Vessel Wall Endothelial Cell Research Series

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Estrogen And The Vessel Wall

For example, women have more chronic inflammatory disease than do men and they have less cardiovascular disease, a protection that is diminished after menopause. We are just beginning to understand these direct effects on the cells within the vascular wall, and this book, Estrogen and the vessel wall, is a great place to start.

Estrogen and the vessel wall - Journal of Vascular Surgery

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In addition to reducing circulating LDL levels, estrogen protects LDL from oxidation , which could indirectly enhance NO bioactivity by reducing the vessel wall concentration of oxidized LDL. Meanwhile, estrogen may also augment the bioactivity of NO independent of lipoprotein effects.

Effects of estrogen on the vascular wall: vasomotor ...

Estrogen and the Vessel Wall marks the start of a new era in understanding the cardiovascular actions of estrogen. It examines the hypothesis, derived from a growing body of epidemiological data, that estrogen acts directly upon the vessel wall to produce beneficial effects in the cardiovascular system.

Estrogen and the Vessel Wall | Taylor & Francis Group

Estrogen and the Vessel Wall marks the start of a new era in understanding the cardiovascular actions of estrogen. It examines the hypothesis, derived from a growing body of epidemiological data, that estrogen acts directly upon the vessel wall to produce beneficial effects in the cardiovascular system.

Estrogen and the Vessel Wall - 1st Edition - Gabor M ...

The rapid vasodilatory effects of estrogen are probably nongenomic, whereas the antiproliferative effects of estrogen are likely due to estrogen receptor-dependent alterations in gene expression. Overlap between these two mechanisms also exists, in that genes regulating the production of two important vasodilators synthesized by the vessel wall (prostacyclin and nitric oxide) can be up ...

Estrogen and the blood vessel wall : Current Opinion in ...

Estrogens exert important regulatory functions on vessel wall components, which may contribute to the increased prevalence and severity of certain chronic inflammatory and autoimmune diseases in females and the lower cardiovascular risk observed in premenopausal women.

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Estrogens and the vascular endothelium.

After menopause, critically estrogen low levels result in modifications in vaginal wall. This cross-sectional study aims to determine whether there is a change in the number of vessels in the lamina propria of the vagina after menopause in parallel to the ER-alpha expression on the vaginal wall.

Estrogen receptor expression and vessel density in the ...

Abstract. Estrogen has been shown to affect vascular cell and arterial function in vitro and in vivo. Here we examined the ability of estradiol (E₂) to cause rapid arterial dilation of elastic and muscular arteries in vivo and the mechanisms involved. E₂ administration caused a rapid increase in the outer wall diameter of both types of arteries in ovariectomized female mice.

Estrogen Induces Vascular Wall Dilation

There is now strong epidemiological evidence that estrogen replacement therapy has a protective effect in postmenopausal women. The cardiovascular protective action of estrogen is reported to be mediated indirectly by an effect on lipoprotein metabolism and by a direct effect on the vessel wall itself.

The vascular protective effects of estrogen

The vasculoprotective effects of estrogen have been also partially attributed to a shift in the NO/superoxide anion (O₂⁻) balance in the vessel wall, thereby increasing the bioavailability of NO. In human umbilical vein cultured endothelial cells, 17β-estradiol decreases expression of the NADPH oxidase subunit gp91phox and up-regulates endothelial NOS expression, improving the NO/O₂ ...

Effects of estrogen on the vascular system

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Among its numerous duties, estrogen also lubricates the vaginal wall and promotes health in this region. 9. Varicose veins. Both estrogen and progesterone expand the female blood vessels. When deficient in either hormone, veins may constrict and expand, producing varicose (or “spider”) veins. 10.

11 Signs You Have Estrogen Dominance

The effects of estrogen and progestogen treatment on the response of the thoracic aortic wall of male rats to hypertension were studied. Hypertension levels induced by clipping the renal artery were similar in untreated (H), estrogen-treated (E), and progestogen-treated (P) hypertensive groups.

Effects of Estrogen and Progestogen Treatment on the ...

The nature of these estrogen response genes in the vessel wall and their relation to vasodilation and antiproliferation remain to be determined.—Farhat, M. Y., Lavigne, M. C., Ramwell, P. W. The vascular protective effects of estrogen. *FASEB J.* 10, 615-624 (1996)

The vascular protective effects of estrogen - Farhat ...

"Estrogen and the Vessel Wall marks the start of a new era in understanding the cardiovascular actions of estrogen. It examines the hypothesis, derived from a growing body of epidemiological data, that estrogen acts directly upon the vessel wall to produce beneficial effects in the cardiovascular system.

Estrogen and the vessel wall (Book, 1998) [WorldCat.org]

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cardiovascular system.

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gen on the vessel wall has a rapid nongenomic component involving membrane phenomena, such as alteration of membrane ionic permeability and activation of membrane-bound enzymes, as well as the classical genomic effect involving estrogen receptor activation and gene expression. The nature of these estrogen response genes in the vessel wall and ...

The vascular protective effects of estrogen

Early studies suggested an effect of estrogen on the vessel wall 27,29: 1 report described how the administration of physiological concentrations of estrogen and progesterone to ovariectomized cynomolgus monkeys 27 decreased LDL accumulation in the arterial wall without changing endothelial cell proliferation or leukocyte-endothelial adhesion.

Estrogen Inhibits LDL (Low-Density Lipoprotein ...

that affect the vessel wall (e.g. atherosclerosis) [14]. The two latter categories nowadays are often also classified as either of genetic or environmental origin. In the low pressure venous vascular bed, stasis plays a major role as a risk factor for venous thrombosis, as does hypercoagulability. Previous venous throm-

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