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Inhibition of nitric oxide (NO) synthesis antagonises the oestrogen-induced increase in coronary blood

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1. Objective

Oestrogen receptors have been found in coronary arterial endothelial and vascular smooth muscle cells. Therefore, the present study was designed to determine if oestradiol-17 β and conjugated oestrogens can increase coronary blood flow and if so whether the changes are mediated by nitric oxide (NO).

2. Study design

Five oophorectomised non-pregnant sheep were chronically instrumented to measure blood pressure, heart rate, cardiac output, left circumflex coronary blood flow and central venous pressure. Animals received oestradiol-17 β or conjugated oestrogens (1.0 μ g/kg) and cardiovascular responses were followed for 135 min.

3. Results

Oestradiol-17 β (1.0 μ g/kg) increased the left circumflex (coronary) blood flow (28 \pm 3%), cardiac output (15 \pm 1%) and heart rate (13 \pm 3%). Coronary and systemic vascular resistance decreased by 23 \pm 5% and 12 \pm 2%, respiratory blood pressure did not change significantly. Conjugated oestrogens showed similar reactions. Administration of the nitric oxide synthetase inhibitor L-nitroarginine methylester (L-NAME) had no effect on basal coronary blood flow, but completely reversed oestradiol-17 β -induced increases in coronary blood flow.

4. Conclusions

These results demonstrate that oestrogen increases coronary blood flow in the non-pregnant sheep and that L-NAME, an inhibitor of nitric oxide, is able to reverse the oestrogen-induced flow changes.

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Endometrial monitoring in postmenopausal patients with breast cancer who are treated with tamoxifen: report of 207 cases

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