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Name of journal: World Journal of Diabetes

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*Basic Study*

Simvastatin, atorvastatin, and pravastatin equally improve the hemodynamic status of diabetic rats

María J Crespo, José Quidgley

**Abstract**

**AIM:** To investigate if the effect of statins improving cardiovascular (CV) status of diabetics is drug-specific or class-dependent, and the underlying mechanisms involved.

**METHODS:** We compared the results of daily administration over a four-week period of a low dose (10 mg/kg/day) of atorvastatin (AV), simvastatin (SV), and pravastatin (PV) on cardiac performance in diabetic rats. Echocardiographic variables were tested, as well as systolic blood pressure (SBP), acetylcholine (ACh)-induced relaxation, plasma cholesterol levels, and perivascular fibrosis. Malondialdehyde (MDA) and 4-hydroxyalkenal (4-HAE), and eNOS and iNOS protein levels were also measured in cardiac and aortic homogenates.

**RESULTS:** In untreated diabetic rats, cholesterol levels were higher than in control rats

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