

ERRATUM

Elhadj Selim, Mousa Shaker A., Forsten-Williams Kimberly. 2002. Chronic pulsatile shear stress impacts synthesis of proteoglycans by endothelial cells: Effect on platelet aggregation and coagulation. J Cell Biochem 86(2): 239–250.

An unnecessary correction was added to the last sentence of the last paragraph of the Discussion section of the above article. The correct paragraph is:

We have found both structural and overall quantity/synthesis difference in proteoglycans isolated from cells cultured under low and high shear stress. These structural changes manifest in differences in activity with regard to inhibition of platelet aggregation and clot formation. We also found, however, a difference in synthesis rate of proteoglycans from cells cultured under the high and low shear stress. If we, therefore, looked at the level of activity on a per cell basis, the differences in effect on aggregation and clot formation disappear and the curves are essentially superimposable (data not shown). This suggests that either the effect of shear stress on the proteoglycan fine structure is being compensated for by a change in proteoglycan synthesis per cell or that the change in synthesis rate is being compensated for by a change in the fine structure of the material. Our data can not allow us to distinguish between the two, however, either way it suggests that the cells are capable of compensating for changes in response to shear stress so as to maintain a desired level of proteoglycan activity. We have only investigated this with regard to platelet activity and further studies would be needed to determine if this compensatory mechanism, potentially important for vascular homeostasis, is general with regard to the myriad of other proteoglycan activities.

The publisher regrets this error.