

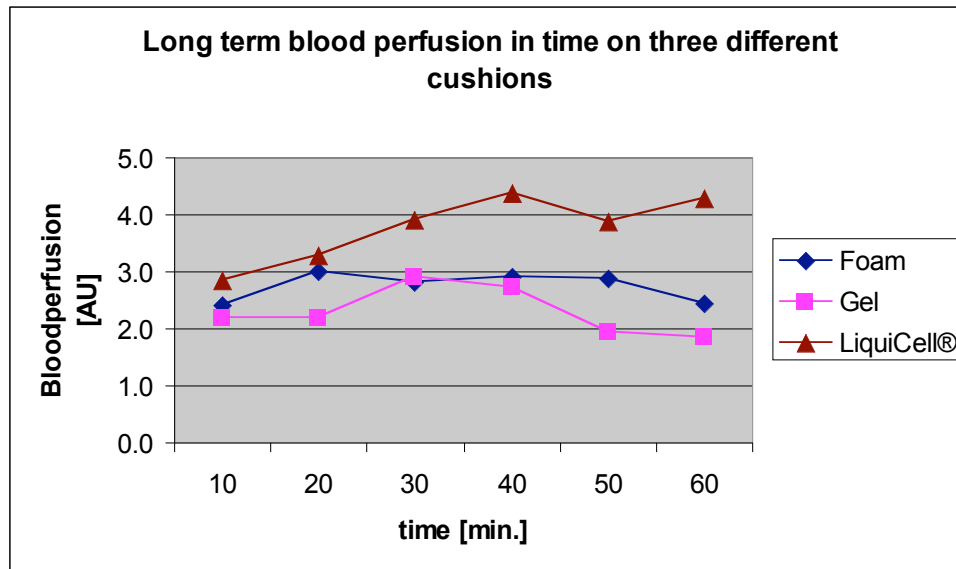
Long term blood perfusion when sitting on three different cushioning materials

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Conclusion

Blood perfusion was measured on 15 healthy subjects while sitting on three different cushions; a LiquiCell® cushion, a gel cushion, and a foam cushion. After 60 minutes there is a significantly better blood perfusion when sitting on the LiquiCell® cushion, 1.8 times better compared to the foam cushion ($P=0.02$) and 2.3 times better compared to the gel cushion ($P=0.005$). These results show that the reduction of shear force on the tissue caused by the LiquiCell® cushion results in a better load situation **inside** the tissue, which results in better blood perfusion.



Average long term blood perfusion for 15 subjects as measured on three different cushions. It can be seen that during the first 10 minutes there is a slight difference between the LiquiCell® cushion and the foam and gel cushion. From then on, different trends can be seen in the signals.

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