



Cerebral Autoregulation and Cardiovascular Health

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Message from the Guest Editors

Cerebral autoregulation (CA) is a growing topic of interest. CA is the mechanism by which the cerebral vasculature maintains adequate flow in response to blood pressure oscillations. Along with cerebral vasoreactivity and neurovascular coupling, it helps the brain to preserve homeostasis and an exquisitely tuned performance. CA assessment is an important field of biomedical research and biosignal analysis. With the advent of proper tools, we are now able to assess CA at the bedside. Disturbances in CA play a major role in both ischemic and haemorrhagic strokes. CA indices could provide predictive measures for neurological outcomes in acute cerebrovascular injuries. More recent studies also show that cerebrovascular dysregulation may contribute to cerebral small vessel disease-related cognitive impairment. Finally, CA may very likely be the mechanistic link in pathological conditions along the heart–brain axis.

We aim to present a collection of manuscripts on a variety of topics related to cerebral blood flow regulation in health and disease.





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Message from the Editor-in-Chief

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