**The current perfusion practices for aortic arch repair/replacement at the University of Ottawa Heart Institute.**

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The presentation describes the most current perfusion techniques and practices used at the University of Ottawa Heart Institute during the procedures for aortic arch repair/replacement.

We discuss the approach to arterial cannulation for different types of lesions, as well as the changes that occur between cooling and rewarming. Hemodynamic monitoring can present challenges during various stages of the surgical procedure, here’s what we do.

Our current temperature management strategies drastically differ compared to the ones we used 5-10 years ago.

Introducing new standards for the monitoring and management of the antegrade cerebral perfusion in order to enhance the protection of the brain during surgery.

What is a safe temperature to come off bypass? The question still awaiting the answer.

The outcomes suggest we’re moving in the right direction.

Key words: aortic arch repair, perfusion, monitoring, hemodynamic, temperature.