

# Ascending aorta cannulation in totally thoroscopic minimally invasive cardiac surgery

Shengjie Liao<sup>1</sup> and Xiaoshen Zhang<sup>1</sup>

<sup>1</sup>Affiliation not available

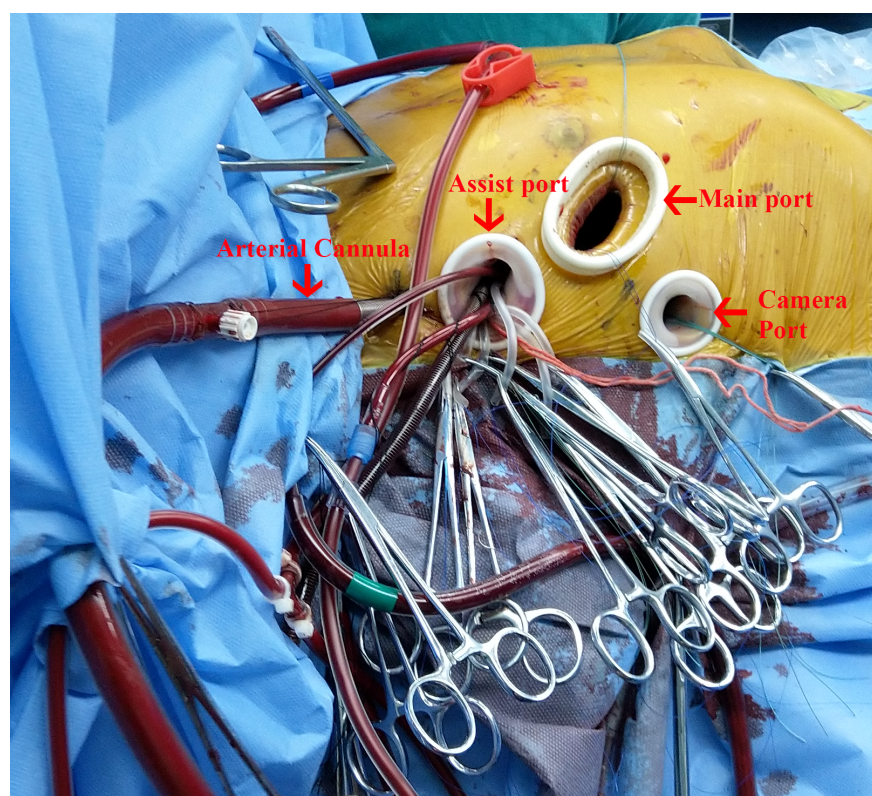
November 21, 2020

## Abstract

The Cannulation through the femoral artery is the preferred method of establishing peripheral extracorporeal circulation in totally thoroscopic minimally invasive cardiac surgery (MICS). However, facing to contraindications of femoral artery cannulation, a modified aortic cannulation is an alternative approach for totally thoroscopic MICS.

## Hosted file

Ascending aorta cannulation in MICS 1.pdf available at <https://authorea.com/users/377641/articles/494280-ascending-aorta-cannulation-in-totally-thoroscopic-minimally-invasive-cardiac-surgery>



## Hosted file

Ascending aorta cannulation in MICS.wmv available at <https://authorea.com/users/377641/articles/494280-ascending-aorta-cannulation-in-totally-thoracoscopic-minimally-invasive-cardiac-surgery>