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Direct true lumen versus conventional cannulation for type-A aortic dissection

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Type A Acute aortic dissection is a surgical emergency with high morbidity and mortality. The cannulation strategy plays a vital role in determining operative outcomes. Several cannulation techniques including femoral, axillary, ascending aortic into false or true lumen under echo guidance and direct aortic true lumen cannulation under vision have been proposed to establish cardiopulmonary bypass. True lumen cannulation has been reported as an attractive and reliable method with lesser mortality and neurological complications. Our objective is to compare the outcomes between direct true lumen and conventional cannulation techniques for arterial access in patients with Type A Acute aortic dissection. Demographics, intraoperative and postoperative outcomes were retrospectively reviewed of patients with Type A acute aortic dissection over 10 years. Twenty patients equally distributed between the two groups underwent surgery for Type A acute aortic dissection from January 2007 - December 2017. Perioperative variables, clinical characteristics and overall post morbidity rate were comparable. Mortality was 1 (10%) vs. 3 (30%) ($p = 0.582$). Frequency of morbidity (57.1% vs 44.4%) was higher in conventional cannulation group, though, not statistically significant. Direct aortic true lumen cannulation is a safe and reasonable option for arterial access to establishing cardiopulmonary bypass due to a reduced mortality and morbidity trend compared to the other cannulation techniques. This strategy may be given preference over other strategies where dissection is extending into femoral and innominate arteries.

Biography

Asra Wahid is a third-year medical student at the Aga Khan University Hospital in Karachi, Pakistan. She scored honors in three disciplines: Anatomy, Pharmacology and Microbiology. She has been actively involved in research both as an organizational capacity and clinical research. She is also an avid member of the finance department of Falah Organization, a welfare organization run by students.

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