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Manuscript Title:

Combined cesarean delivery and repair of acute type A aortic dissection at 34 weeks of pregnancy during COVID - 19 outbreak: A case report

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Abstract:

BACKGROUND: Since the outbreak of the coronavirus disease 2019 (COVID - 19) pandemic, the exclusion of a patient from COVID-19 should be performed before surgery. However, patients with acute type A aortic dissection (ATAAD) during pregnancy can seriously endanger the health of either the mother or fetus that requires emergency surgical treatment.

METHODS: A 38-year-old woman without Marfan syndrome was admitted into the hospital because of chest pain in the 34th week of gestation. She was diagnosed as an acute type A aortic dissection involving an aortic arch and descending aorta via aortic computed tomographic angiography. The patient was transferred to the isolated negative pressure operating room in one hour and underwent cesarean delivery and ascending aorta replacement. All medical staff adopted third-level medical protection measures throughout the patient transfer and surgical procedure.

RESULTS: The patient and infant recovered uneventfully.

CONCLUSION: The results indicated that the procedure we used is feasible in patients with a combined cesarean delivery and surgery for Stanford type-A acute aortic dissection during the COVID-19 outbreak, which was mainly attributed to rapid multidisciplinary consultation, collaboration, and quick decision-making.

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