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Clinical outcomes and complications after congenital heart surgery in children Supported by venoarterial membrane oxygenation in Shahid Rajaee Hospital from September 2015 to September 2016

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ABSTRACT
The aim of this study was to evaluate clinical outcomes and complications after congenital heart surgery in children supported by venoarterial membrane oxygenation in Shahid Rajaee Hospital from September 2015 to September 2016. A total of 287 children were included in this study. The median age of the patients was 2 years (range: 2 months to 16 years). The most common diagnosis was congenital heart disease (70.5%). The surgical procedures performed included atrial septal defect repair (44.4%), ventricular septal defect repair (28%), and other procedures. The median postoperative intensive care unit stay was 2 days (range: 1-30 days). The median postoperative hospital stay was 5 days (range: 1-90 days). The median postoperative length of stay was 6 days (range: 2-15 days). The most common complications were respiratory (30.1%), cardiac (20.3%), and neurological (13.2%). The overall mortality rate was 2.1%. The results of this study suggest that venoarterial membrane oxygenation can be an effective and safe technique for providing support during congenital heart surgery.