

7. ETIOLOGY AND TREATMENT OF SUPRAVENTRICULAR ARRHYTHMIAS IN CHILDREN



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Introduction. The irregular heartbeats that take place above the ventricles are known as supraventricular arrhythmias. This study aims to investigate the causes as well as available treatments of supraventricular arrhythmias in pediatric patients.

Aim of study. Genetic factors and structural heart defects are two possible causes of these arrhythmias in children.

Methods and materials. A review of previous research, from 2020 till 2023 and case studies pertaining to pediatric supraventricular arrhythmias were conducted as part of the study.

Results. The study findings indicate that the etiology of supraventricular arrhythmias in children may be complex, involving factors such structural heart defects and genetic predispositions. Treatment options included medication with 70% success rate for single drug therapy, 90% success rate for catheter ablation, and, in certain circumstances, surgical intervention. These alternatives varied depending on the unique needs of each child.

Conclusion. In summary, a comprehensive strategy that takes individual circumstances into account is necessary for the etiology and treatment of supraventricular arrhythmias in children. In order to give all children individualized care and establish the best course of action, working together with pediatric cardiologists and other specialists is essential.