

## Investigating the Post-Liver Transplant Complications and Their Management in Children Referred to the Children's Medical Center

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**Abstract :** Backgrounds: Regarding the important role of liver transplantation as the only treatment in many cases of end-stage liver disease in children, the aim of this study is to investigate the complications of liver transplantation and their management in children referred to the Children's Medical Center. Methods: This study is a cross-sectional study on pediatric patients who have undergone liver transplants in the years 2016 to 2021. The indication for liver transplantation in this population was confirmed by a pediatric gastroenterologist, and a liver transplant was performed by a transplant surgeon. Finally, information about the patient before and after the transplantation was collected and recorded. Results: A total of 53 patients participated in this study, including 25 (47.2%) boys and 28 (52.8%) girls. The most common causes of liver transplantation were cholestatic and metabolic diseases. The most common early complication of liver transplantation in children was acute cellular rejection (ACR) and anastomotic biliary stricture. The most common late complication in these patients was an infection which was observed in 56.6% of patients. Among the drug side effects, neurotoxicity (convulsions) was seen more in patients, and 15.1% of the transplanted patients died. Conclusion: In this study, the most common early complication of liver transplantation in children was ACR and biliary stricture, and the most common late complication was infection. Neurotoxicity (convulsions) was the most common side effect of drugs.

**Keywords :** liver transplantation, complication, infection, survival rate

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