

## عنوان مقاله:

Assessment of factors affecting on reduction of fast blood sugar before elective surgery in children

## محل انتشار:

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## نویسندگان:

Zohreh Montaseri

Mohammad Hosein Eghbal

Mohammad naby Rahimian

Ghasem Sobhani

Faramarz Kooshesh

Fatemeh Gheidar

## خلاصه مقاله:

**Introduction:** Reduction in blood sugar and prolong the duration of fasting in infants and children's surgery have many damages. The aim of this study is to determine the affecting factors on the reduction of fasting blood sugar before an elective surgery for children. **Methods:** This study is a randomized single-blind clinical trial and examining the patients that are performed on 60 children for undergoing elective surgery and the effect of age variables and duration of fasting on fasting blood sugar before induction of anesthesia was reviewed. Children were divided into seven groups based on fasting duration and were divided into four groups based on the age. Clotted blood sugar levels before induction of anesthesia and injecting of serum were examined. The information was analyzed by using descriptive statistics and t-test with SPSS software. **Results:** The highest incidence of hypoglycemia (blood sugar of 59-50) was observed in children aged above 5 years (35.7%) and during the fasting hours more than 10.5 hours (40%). The impact of age and hours of fasting variables on blood sugar was statistically significant ( $P > 0.0001$ ). **Conclusion:** The causes of hypoglycemia are with increasing age, duration of fasting, likely less attention to children's clinical signs and hypoglycemia behavior, lack of adequate and proper fluids alternatives, giving lower risk and higher tolerance in older children to prolong fasting duration. It is recommended to prepare a checklist of clinical symptoms and behaviors in children and specified times before, during and after surgery shall be assessed and monitored. In addition, the fasting tolerance duration should be reviewed and new review and guide should be announced for the volume, type and duration of fluid intake before surgery in children. Obstacles to increase the waiting duration for patients' surgery must be reviewed and eliminated.

## کلمات کلیدی:

Blood Glucose, Pediatrics, Anesthesia, Blood Glucose, Pediatrics, Anesthesia

## لینک ثابت مقاله در پایگاه سیویلیکا:

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