

عنوان مقاله:

Evaluation of Effect of Preoperative Oral Carbohydrate on the Perioperative Agitation in Pediatrics Undergoing Elective Herniorrhaphy; A Double-Blind Randomized Clinical Trial

محل انتشار:

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خلاصه مقاله:

Background The aim of this study was to evaluate the effect of preoperative oral carbohydrate on the perioperative agitation in pediatrics with elective herniorrhaphy. **Materials and Methods** In this randomized clinical trial study, 120 pediatrics, 6 months to 10 years-old who underwent elective herniorrhaphy were admitted. Sixty pediatrics in the intervention group received 5 ml/kg of 20% dextrose solution manufactured by Samen Company as carbohydrate beverage exactly 2 hours before surgery and the control group (n=60) received distilled water. The perioperative agitation score was calculated as follows. Score 1: quiet, silent child, score 2: mild but agitated, score 3: medium aggression, and score 4: severe agitation measured before surgery, at recovery, 5, 15 and 30 minutes after intervention. Also, the incidence of nausea and vomiting was recorded in each group. **Results** Of the 60 pediatrics in the intervention group, 44 patients were quiet and silent at the time of entry into the operating room, and 6 patients had mild agitation; in the control group, 7 patients were quiet and silent, 41 patients were mild but agitated, and 12 were moderate. There was a significant difference in agitation between the two groups ($P = 0.001$). Five minutes after surgery, 44 patients scored 1, 6 patients scored 2 in the control group, 27 patients scored 1 and 33 patients scored 2. There was a significant difference between agitations of children 5 minutes after intervention in the two groups. **Conclusion** Five ml/kg of 20% dextrose solution as carbohydrate beverage exactly 2 hours before anesthesia may lead to parental satisfaction and improvement in positive behavior of pediatrics at anesthesia induction and wake up from anesthesia.

کلمات کلیدی:

Carbohydrates, Children, Herniorrhaphy, Preoperative fasting, Perioperative agitation

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