

عنوان مقاله:

Effects of Dextrose Gel in Preventing and Treating Neonatal Hypoglycemia: A Systematic Review and Meta-analysis

محل انتشار:

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خلاصه مقاله:

Neonatal hypoglycemia is one of the major complications in neonatal wards, requiring rapid diagnosis and treatment to prevent its complications. Dextrose gel is used as a cheap and safe choice. Thus, the present systematic review and meta-analysis study aimed to investigate the effects of oral dextrose gel in preventing and treating neonatal hypoglycemia. To find the relevant articles, the national databases, including Barekat Gostar, SID, Magiran, IranDoc, and international databases, including PubMed, Scopus, Web of Science, Cochrane, and Google Scholar were consulted with standard keywords. The data were analyzed using the STATA ۱۴ software, while the P value < 0.05 was considered significant. In ۹ articles with a sample size of ۸۷۵۵ neonates, the mean neonatal weight ranged from ۲۸۹۰ to ۳۶۶۹ g. The share of neonates born through normal vaginal delivery equaled ۶۱%, while ۱۶% had low birth weight (below ۲۵۰۰ g), ۱۶% had high birth weight (above ۴۵۰۰ g), ۵۱% had diabetic mothers, ۲۰% were premature, and ۸۸% were singleton. Oral dextrose gel reduced the risk of neonatal hypoglycemia by $OR=0.83$ (۹۵% CI: ۰.۷۵-۰.۹۳). However, neonatal hypoglycemia treatment with oral dextrose gel had an $OR=0.78$ (۹۵% CI: ۰.۵۷-۱.۰۷), which was not statistically significant. Oral dextrose gel was effective in preventing neonatal hypoglycemia

کلمات کلیدی:

Dextrose gel, Prevention, Therapy, Hypoglycemia, Infant, Newborn

