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Early versus Delayed Human Milk Fortification in Very Low Birth Weight Infants-A Randomized Controlled Trial.

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Author information

Abstract

OBJECTIVE: To compare the effect of initiating human milk fortification at 2 different feeding volumes on feeding intolerance and the time to reach full feeding volume.

STUDY DESIGN: Very low birth weight infants (n = 100) were prospectively randomized to early fortification (EF) (beginning at a feeding volume of 20 mL/kg/d) or delayed fortification (at a feeding volume of 100 mL/kg/d). We employed a standardized feeding protocol and parenteral nutrition guidelines for the nutritional management of all study infants.

RESULTS: The median days to reach full feeding volumes were equivalent in the 2 groups (20 vs 20, P = .45). No significant difference was observed in the total number of episodes of feeding intolerance (58 vs 57). Two cases of necrotizing enterocolitis (Bell stage ≥ 2) and deaths occurred in each group. Median daily protein intake (g/kg/d) was higher in EF group in week 1 (3.3 [3.2, 3.5] vs 3.1 [2.9, 3.3], P < .001), week 2 (3.6 [3.5, 3.8] vs 3.2 [2.9, 3.4], P < .001), and week 3 (3.7 [3.4, 3.9] vs 3.5 [2.8, 3.8], P = .006). Cumulative protein intake (g/kg) in the first 4 weeks of life was higher in EF group (98.6 [93.8, 104] vs 89.6 [84.2, 96.4], P < .001).

CONCLUSIONS: Very early human milk fortification may improve early protein intake in very low birth weight infants without increasing frequencies of adverse events.

TRIAL REGISTRATION: ClinicalTrials.gov: NCT01988792.

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KEYWORDS: caloric intake; growth; protein intake

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