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By Keywords: breastfeeding, cerebrospinal fluid leakage, formula, hydrocephalus. ventriculoperitoneal shunt

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Trend MI

formula-fed (EFF). Infants were followed up to determine the occurrence of shunt infection within 6 months after operation. Statistical analysis was performed using survival methods.

RESULTS

METHODS

Infants ranged in age from 4 to 170 days at the time of shunt insertion (mean 69.6 days), and 57% were males. Regarding the breastfeeding categories, 57.5% were EBF, 25,2% were CFBF, and 17.3% were EFF. During the follow-up, shunt infection occurred in 16 patients, within 15 to 173 days after shunt surgery (median 49 days). The 6-month risk of shunt infection was 8.5% (95% confidence interval [CI] 4-18%) in the EBF group, 16.5% (95% CI 7-35%) in the CFBF group, and 26.0% (95% CI 12-52%) in the EFF group. There was no statistically significant difference between these 3 groups (p = 0.11). The trend test showed a significant trend between the extent of breastfeeding and the risk of shunt infection (p = 0.035), which persisted even after adjustment for potential confounding variables (hazard ratio = 2.01, 95% CI 1.01-4).

A cohort study was conducted from December 2003 to December 2006 at Children's Hospital Medical

Center in Tehran, Iran. A total of 127 infants with hydrocephalus who were treated using a VP shunt

in the first 6 months of life were enrolled. Each infant's breastfeeding method was classified as either

exclusively breastfed (EBF), combination feedings of breast milk and formula (CFBF), or exclusively

CONCLUSIONS

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