



The aim of this study was to evaluate the safety and efficacy of home parenteral nutrition (HPN) service in patients with benign chronic intestinal failure (CIF)” De Francesco et al (2019).

Abstract:

OBJECTIVES: The aim of this study was to evaluate the safety and efficacy of home parenteral nutrition (HPN) service in patients with benign chronic intestinal failure (CIF).

METHODS: This was a 10-y retrospective, non-interventional, multicenter study conducted with adult and pediatric patients with CIF who received HPN service. We analyzed data prospectively collected from a dedicated register by HPN nurses.

RESULTS: From January 2002 to December 2011 a total of 794 patients (49.7% male, median age 1 y for children and 57 y for adults) were included in the analysis. Over the 10-y period, 723 central venous catheter (CVC) complications occurred, of which 394 were infectious (54.5%), 297 were mechanical (41.1%), and 32 (3.3%) were defined as CVC-related thrombosis. The complication rate was higher in children (1.11 per patient) than in adults (0.70 per patient). During the observation period, the rates of both infectious and mechanical complications showed a global declining trend and ~75% of patients had neither infectious nor mechanical CVC complications. HPN efficacy was evaluated in 301 patients with a minimum follow-up of 36 mo. Body mass index and Karnofsky score showed that the median growth significantly increased ($P < 0.001$) over baseline for adults and pediatric patients in

the 0 to 2 age range. CONCLUSIONS: The use of a structured register has proved to be a key strategy for monitoring the outcomes of long-term treatment, improving time efficiency, and preventing potential malpractice. To our knowledge, this is largest survey ever documented; the results were consistent despite the heterogeneity of the centers because of duly applied standard rules and protocols.

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Reference:

De Francesco, A., Diamanti, A., Gandullia, P., Aimasso, U., Arrigo, S., Brolatti, N., Capriati, T., Elia, D., Mazzuoli, S., Merlo, F.D., Pazzeschi, C., Regano, N., Sasdelli, A.S., Pironi, L. and Guglielmi, F.W. (2019) Non-interventional, retrospective data of long-term home parenteral nutrition in patients with benign diseases: Analysis of a nurse register (SERECARE). *Nutrition*. March 7th. doi: 10.1016/j.nut.2019.01.006. .

