

ABSTRACT

Objective: ~~Although perioperative~~ Perioperative immune-enhancing enteral formula (IEEF) effectively ~~reduces the~~ ~~is effective to decrease~~ rate of infectious complications ~~that are infective, but~~ whether ~~the~~ ~~its~~ chronic use ~~of IEEF~~ ~~is~~ ~~are~~ beneficial ~~is~~ ~~remains unknown~~ ~~not known to us~~. A prospective ~~Prospective~~ randomized clinical trial was ~~performed~~ ~~undertaken~~. ~~This was done in order~~ to examine the safety and effectiveness ~~impact of~~ ~~the~~ long-term IEEF on the nutritional ~~nutrition condition~~ and immunological status of nonsurgical ~~in non-surgery~~ patients receiving ~~under~~ total enteral nutrition through the gastrostomy access route. ~~A total of 30 patients was randomly assigned to two groups.~~

Comment [A1]: A singular subject must be accompanied by a singular verb. Here, the subject is "chronic use." Therefore, the verb has been revised to "is."

Methods: This study involved 30 patients who were randomly divided into two ~~Two~~ groups; receiving ~~received~~ total enteral nutrition ~~either~~ with IEEF immune enhancing enteral formula (Group IEEF, $n = 15$) or with regular polymeric enteral formula (Group C, $n = 15$) for 12 weeks. Nutritional ~~Nutrition~~ and immunological parameters were periodically ~~periodically~~ examined periodically.

Comment [A2]: The text alongside has been moved from Objectives to Methods as it pertains to the study participants and groups. Such information is generally provided in the Methods section.

Comment [A3]: Abbreviations are defined at their first mention in the text and the abbreviated form is used consistently at all subsequent instances.

Comment [A4]: Spaces are generally inserted before and after arithmetic symbols.

Results: The serum levels ~~A significant increase of serum levels of~~ insulin-like growth factor 1 ~~(similar to insulin, IGF-1)~~ significantly increased, was noted in Group IEEF throughout the ~~course of the~~ study. Furthermore, the ~~While~~ serum levels ~~level~~ of dihomo- γ -linoleic acid ~~in Group IEEF was~~ significantly decreased and those, serum levels of eicosapentaenoic ~~eicosa-pentaenoic acid~~ and docosahexaenoic ~~docosa-hexaenoic acid were significantly increased~~ as well as those of. Serum arginine and ornithine concentrations in Group IEEF were significantly increased significantly increased in Group IEEF. No significant difference was noted in the CD4/CD8 ratio and NK cell activity between the two groups ~~were observed in Group IEEF, but the difference was not significant~~. The ~~A significant increase of~~ B-cell fraction significantly increased, while ~~and the~~ ~~the decrease of~~ T-cell fraction of peripheral lymphocytes

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significantly decreased ~~were observed~~ in Group IEEF. ~~No~~ ~~There was no~~ infectious ~~and~~ ~~noninfectious~~ ~~non-infectious~~ complications occurred during the study period in ~~either group~~ ~~both groups~~, except for a significant increase in ~~the~~ serum ~~levels of blood urea nitrogen~~ ~~BUN~~ and uric acid ~~concentration~~.

Comment [A5]: In American English, hyphens are used only when their absence can create misunderstanding. Use a hyphen to avoid doubling or tripling of consonants or vowels; for example, *re-entry*, *de-energize*.

Conclusion: ~~The long~~ ~~Long~~ term use of IEEF is ~~safe~~ ~~safely performed~~ in ~~nonsurgical~~ ~~non-surgery~~ patients ~~and results in~~ ~~which enables to cause~~ a significant increase ~~in the~~ ~~of~~ serum ~~levels of~~ IGF-1 ~~concentration~~ associated with ~~increased~~ ~~increase in~~ humoral immunity.