LIPID EMULSION BASED EXCLUSIVELY ON OMEGA-3 FATTY ACIDS FOR ABNORMAL LIVER FUNCTIONING ASSOCIATED WITH TOTAL PARENTERAL NUTRITION AT HOME

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Background
Abnormal liver functioning is associated to long-term treatment with total parenteral nutrition (TPN).

Purpose
Assessing the influence of a lipidemulsion based exclusively on omega-3 fatty acids on the progress of abnormal liver functioning in a patient with long-term TPN.

Material and methods
Descriptive retrospective study regarding a case of parenteral nutrition: 52-year-old woman with cyclic TPN at home due to an intestinal obstruction secondary to a recurrent appendix tumour. External gallbladder flush. Impossibility of oral intake. The lipid input was based on a solution based exclusively on omega-3 fatty acids. Clinical, analytical and nutritional variables were gathered.

Results
The administration of this formulation for 7 months as the only lipid formulation was effective and well tolerated by the patient and no deficit in essential fatty acids was detected.

Conclusion
The patient tolerated the treatment and no adverse effects were observed in relation to fish oil, such as thrombocytopenia or INR increases. The deficit in essential fatty acids was monitored, their values being found to be within normal limits. The clinical and analytical parameters remained stable until the patient died due to the progression of her condition.