



PREOPERATIVE ORAL IMMUNONUTRITIONAL SUPPLEMENTATION IN GASTRIC CANCER PATIENTS UNDERGOING GASTRECTOMY

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Background and aims

Patients treated with preoperative oral immunonutritional supplementation (POIS) show a significant reduction in both postoperative infectious complications rate (39-61%) and length of hospital stay (2.6 mean days), as reported by current literature. The aim of our study was to verify whether our gastric cancer patients who underwent gastrectomy in the period 2020-2021 benefited or not from the POIS in terms of postoperative infectious complications and / or length of hospital stay compared to those who did not adopt it.

Methods

We extracted data concerning the gastric surgery in gastric cancer patients from January 2020 to December 2021 from the computerized operating theatre register of the Surgical Oncology Unit of the Azienda USL-IRCCS of Reggio Emilia (Italy). In Surgical Oncology Unit the hospitalization daily cost is about € 769.

Results

Sixty-two gastric cancer patients underwent distal or total gastrectomy in the selected period. Thirty-one patients benefited from POIS (50%; male/female ratio 1.38) and 31 patients did not (50%; male/female ratio 0.82) [table].

Conclusions

In the population analyzed, adoption of POIS was related to a reduced postoperative infections complications, a shortened length of hospitalization, as well as a lower stay costs.

	Yes - POIS (31)	No - POIS (31)
Cancer Diagnosis		
Age (years)	67.53 ± 13.44 [37.66-85.53]	72.42 ± 10.40 [43.04-89.27]
Body Weight (kg)	78.38 ± 16.52 [39.00-118.00]	68.87 ± 11.99 [44.80-89.00]
BMI (kg/m ²)	28.80 ± 5.35 [16.03-40.83]	25.27 ± 3.86 [17.58-33.65]
Cancer Surgery		
Age	67.93 ± 13.44 [37.95-85.74]	72.66 ± 10.35 [43.38-89.31]
Body Weight (kg)	75.23 ± 15.67 [39.50-106.20]	66.33 ± 12.53 [40.00-88.00]
BMI (kg/m ²)	27.71 ± 5.43 [16.23-36.72]	24.29 ± 5.90 [17.31-32.05]
Total Gastrectomy	10	7
Distal Gastrectomy	21	24
Complications	9 [1 infectious]	7 [2 infectious]
Length of stay	16.52 ± 8.06 [10-54]	22.55 ± 28.55 [9-165]
Costs	12,700.90 ± 6,196.29 [7,690-41,526]	17,339.71 ± 21,956.12 [6,921-126,885]
Discharge		
Body Weight (kg)	73.12 ± 14.96 [38.00-104.50]	63.25 ± 11.41 [40.50-84.00]
BMI (kg/m ²)	26.90 ± 5.03 [15.61-35.38]	23.19 ± 3.51 [15.82-29.24]
Rehospitalization	4	3

