



EFFECT OF SPECIALIZED ORAL NUTRITIONAL SUPPLEMENTATION ON BIOELECTRICAL IMPEDANCE VECTORS IN PATIENTS WITH METASTATIC COLORECTAL CANCER: A RANDOMIZED CONTROLLED TRIAL

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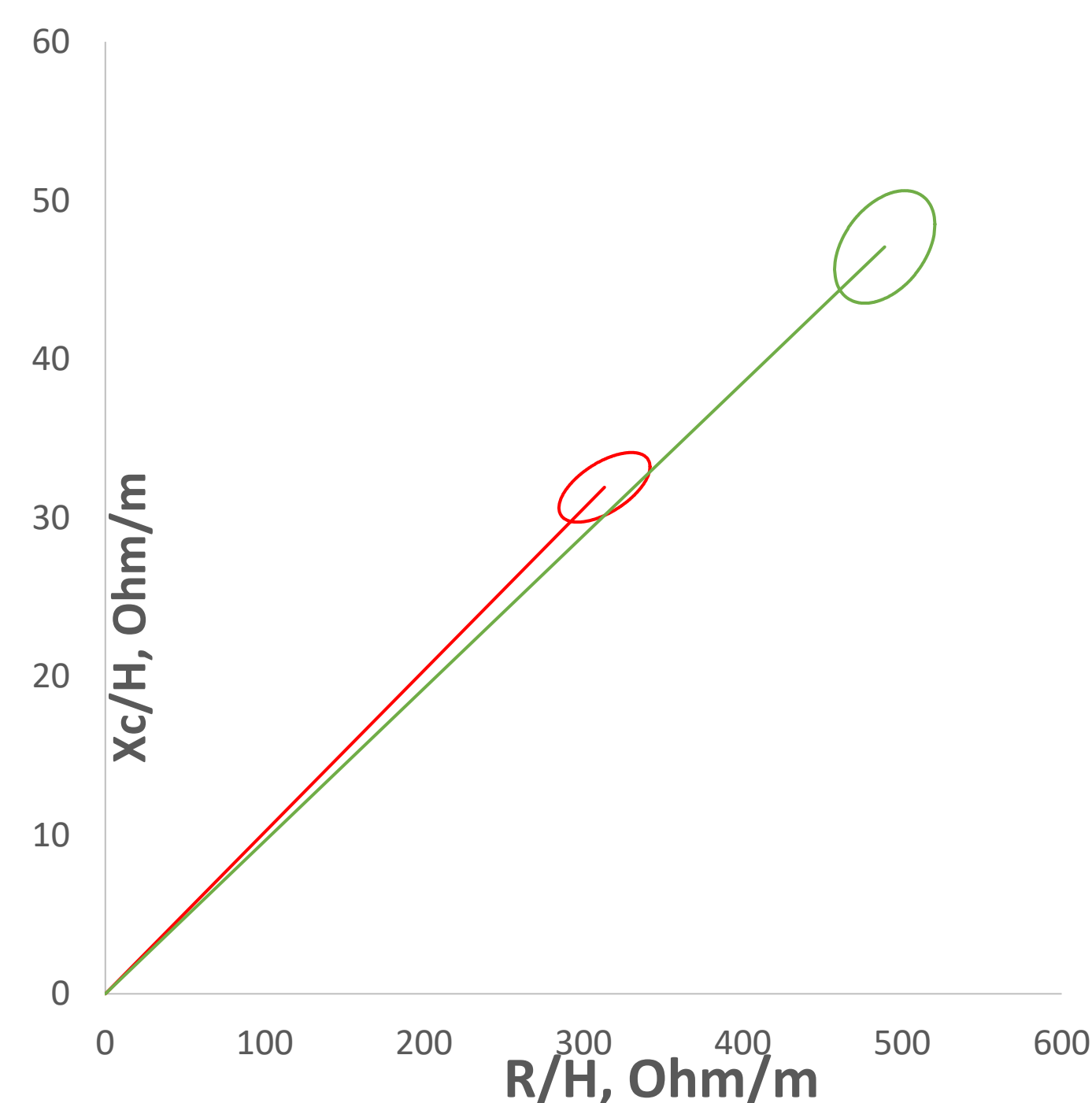
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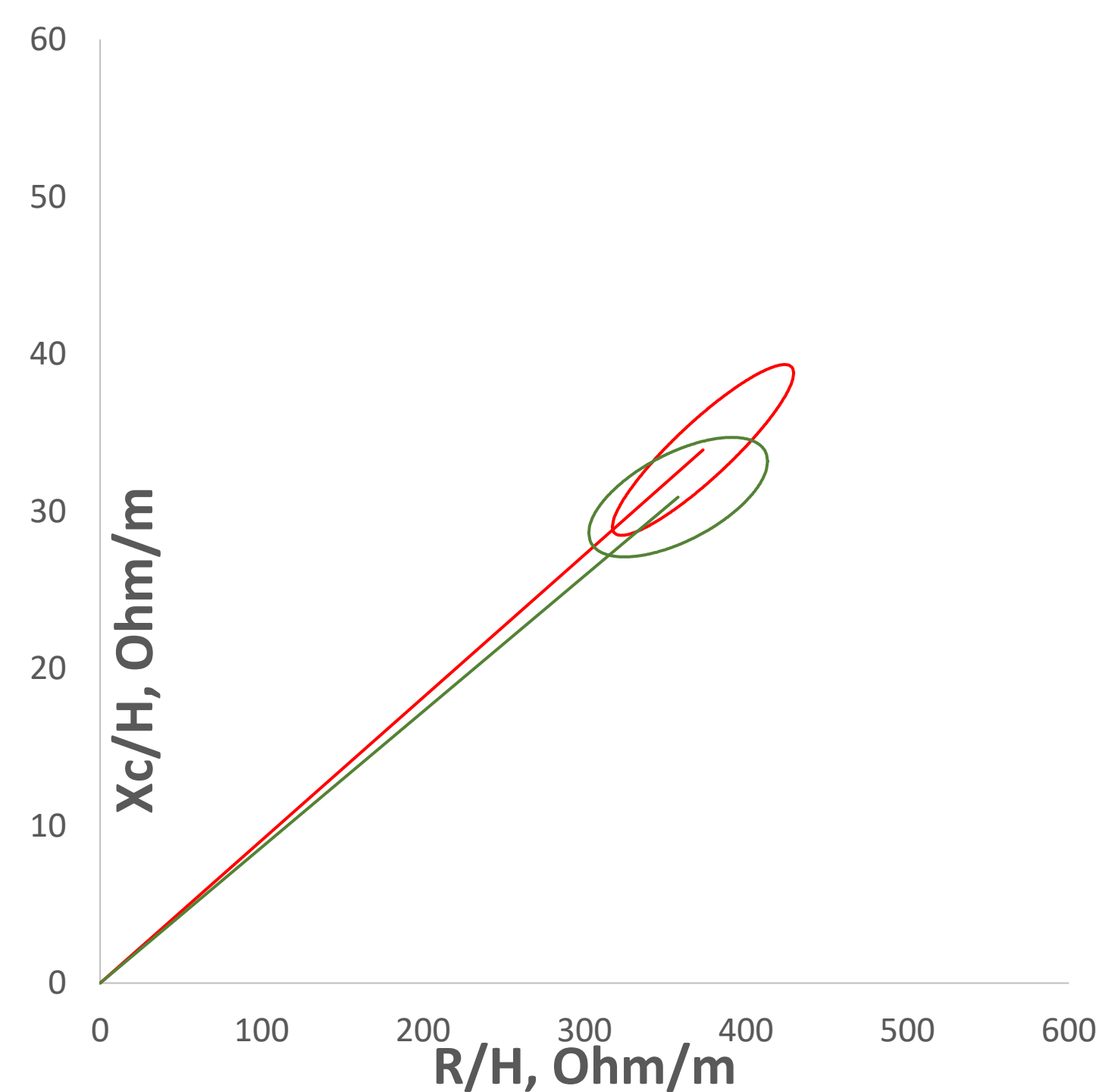
Background

Nutritional support plays a crucial role in oncology care, especially for patients with metastatic catabolic diagnoses, such as metastatic colorectal cancer (mCRC). While oral nutritional supplementation (ONS) is a common strategy to improve overall nutritional status, there is still a gap in identifying the most appropriate interventions. Our study aimed to evaluate the impact of specialized ONS on bioelectrical impedance vector patterns of patients with mCRC, compared to a control group (only nutritional counseling).

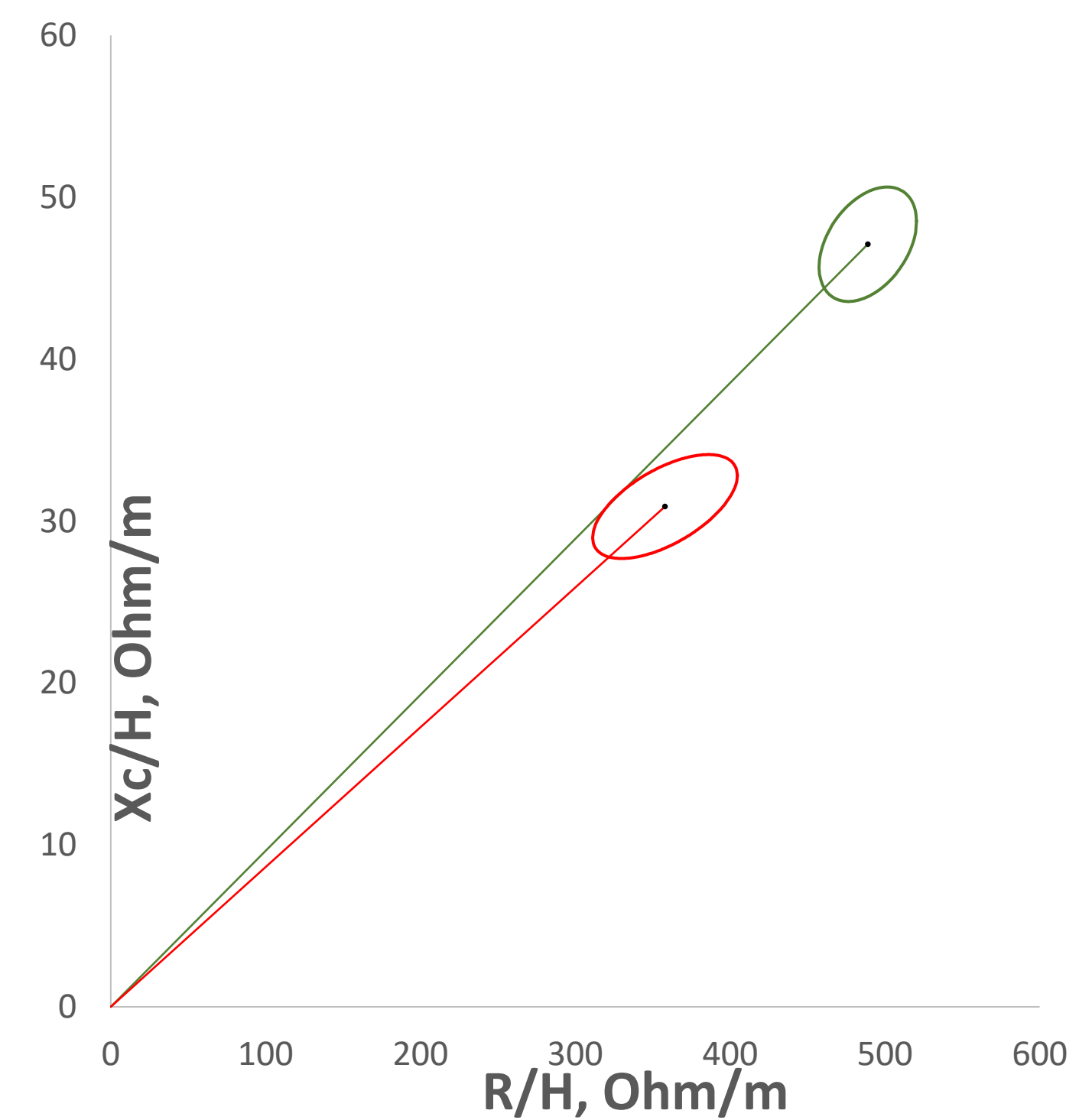
Results



IG (n = 14): The mean vectors of R/H (resistance/height) and Xc/H (reactance/height) significantly increased after the intervention with ONS ($P < 0.0001$)



CG: (n = 6): During follow-up, no differences were observed for the mean vectors ($P = 0.26$).

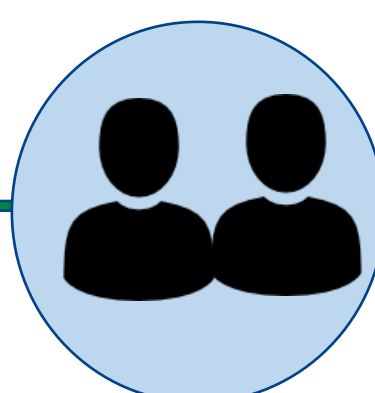


After follow-up (T1), the IG presented with significantly higher BIVA vectors compared to the CG ($P < 0.0001$).

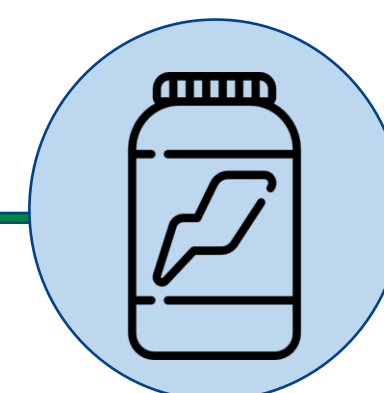
Method



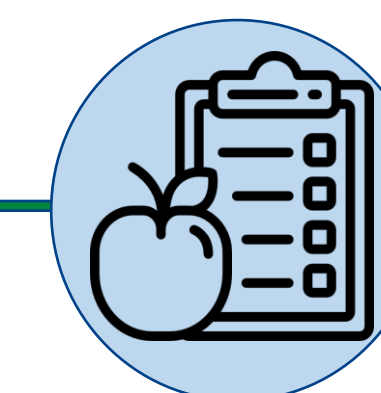
This is a partial analysis of a **randomized clinical trial** conducted at the Advanced Oncology Center, in Natal, Rio Grande do Norte – Brazil



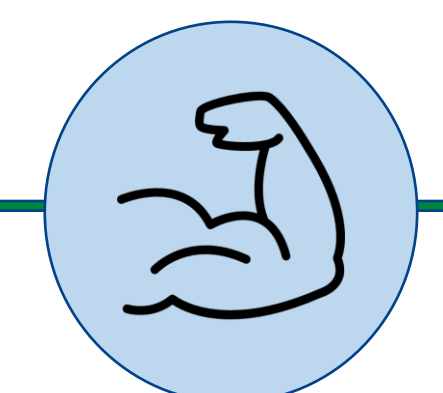
Adults of all ages, males and females, diagnosed with mCRC undergoing clinical treatment were included. Participants were randomly assigned to the **intervention group (IG)** or to the **control group (CG)**.



IG: received nutritional counseling combined with a specialized oral nutritional supplement (ONS), rich in protein + enriched with L-leucine and zinc (Immax®, Prodiet Medical Nutrition) for a period of 60 days;



CG: received only **nutritional counseling** without ONS.



BIVA was achieved through normalized values of resistance (R), reactance (Xc), and height (H), using the ratios **R/H** and **Xc/H**. BIVA 2002 software was utilized.

Summary/ Highlights

Specialized ONS led to improvements in BIVA vectors among patients with mCRC, resulting in a beneficial effect on enhancing cell mass health.



References

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- Amara CN et al. Bioelectrical impedance vector analysis (BIVA) as a method to compare body composition differences according to cancer stage and type. *Clinical Nutrition ESPEN*, 2019;30: 59-66.

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