

# **Effect of a single nutritional intervention previous to a critical period of fat gain in university students with overweight and obesity. A randomized controlled trial**

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## **Study Protocol and Statistical Analysis Plan**

The normality of the data distribution was tested using Shapiro Wilk's test. Continuous variables are presented as mean and standard deviation (SD). A t-test was performed to compare differences between groups before beginning the intervention (Table 1). ANOVA analysis was used to determine the interaction between intervention\*sex and intervention\*age. Repeated measures ANOVA were used to compare the different evaluation times (T1, T2, and T3) per intervention group (CG and IG). Bonferroni post-hoc was used to establish differences among groups per each time.

A t-test was used for independent samples to compare differences between deltas (post – pre-values of FM, physical activity, and feeding questionnaires) by groups, and Wilcoxon test for paired samples when normality was violated. Also, Chi-square and Fisher's exact tests were used to compare variation on nutritional questionnaires and set of dietary recommendations. Hedges' g, which includes a correction for small sample bias, was used to estimate the effect size, complementing the p-value from t-tests. Hedges' g was interpreted as no effect ( $< 0.2$ ), small ( $0.2$  to  $< 0.5$ ), medium ( $0.5$  to  $< 0.8$ ), and large ( $\geq 0.8$ ) [25]. The significance level was set at  $p < 0.05$ .