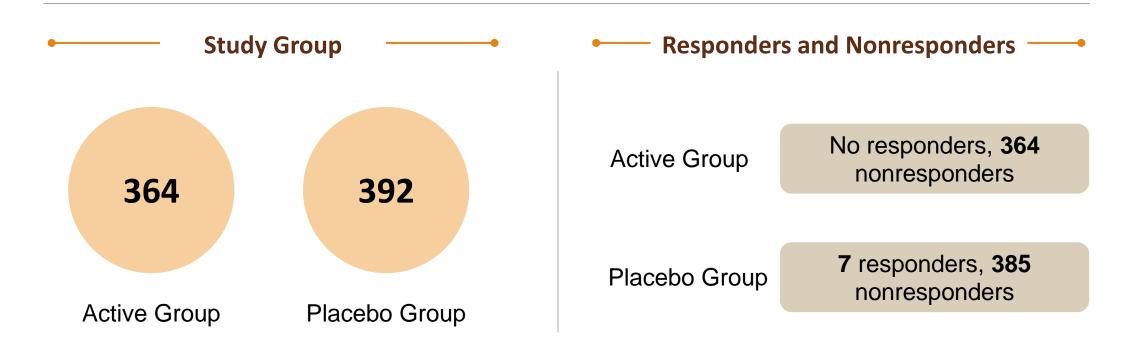
ACTIVE AND PLACEBO TREATMENT

DATA ANALYSIS

Overview



Key Focus: Comparing blood marker changes between treatment groups and between responders/nonresponders

Blood Marker Analysis – Active vs Placebo

Statistical Test: Mann-Whitney U test to compare blood marker changes

Key Findings:

CCL2

Significant difference (p = 0.0224)

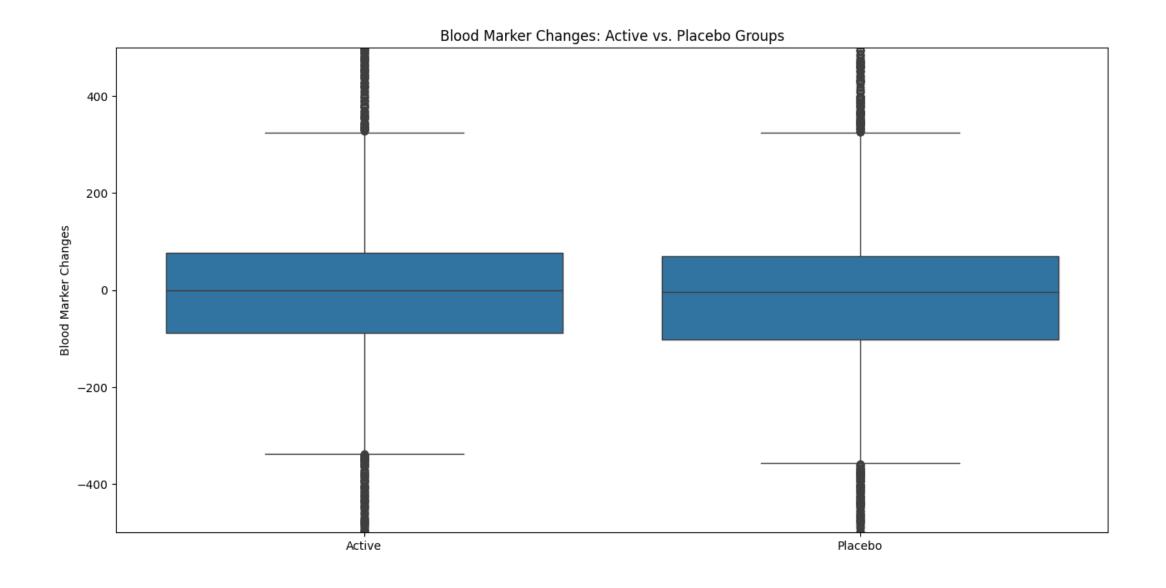
CCL17

Significant difference (p = 0.0365)

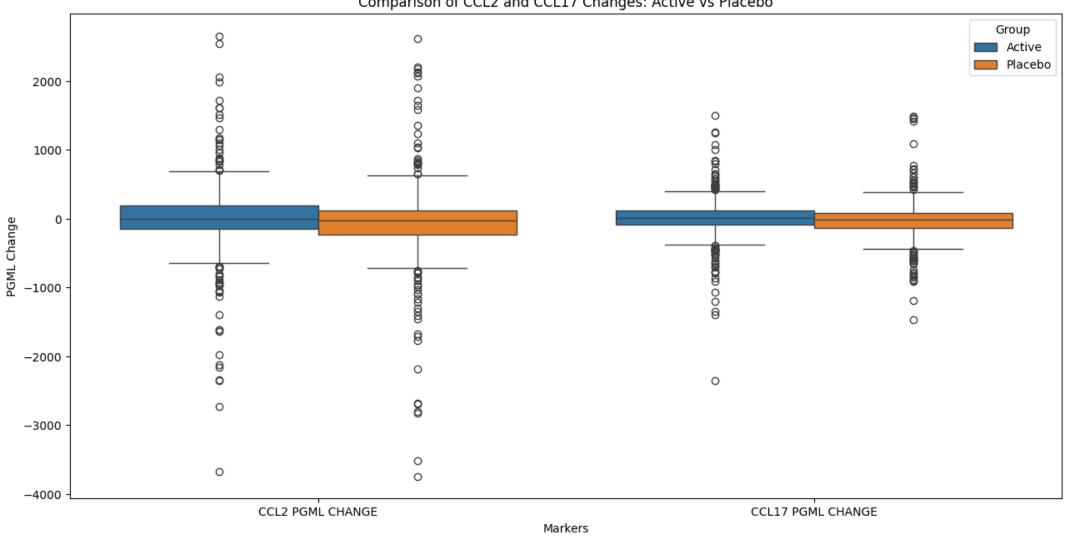
Showed statistically significant differences between Active and Placebo groups could be potential biomarkers for treatment efficacy

CXCL10 & TSLP

Need further investigation



Comparison of CCL2 and CCL17 Changes: Active vs Placebo



Responders vs Nonresponders within Active Group

Active Group

CCL2 showed a significant difference between Responders and Nonresponders (p = 0.007) no responders in the Active group, so insights are limited, but CCL2 could indicate treatment response in future studies.

Responders vs Nonresponders within Placebo Group

Placebo Group

No significant differences in blood markers between Responders and Nonresponders suggests clinical improvements in the placebo group are not tied to blood marker changes.

Next Steps

Visualizations

Create more detailed visualizations of significant markers (CCL2, CCL17, CXCL10, TSLP)

Correlation
Analysis

Tells why these markers differ.

Advanced Analysis

- Multivariate analysis
- Logistic regression models

Help to identify which markers are most predictive of treatment response and explain the interactions between specific markers and the treatment.

Clinical Relevance

Investigate if the identified markers (CCL2, CCL17) are clinically meaningful