Assessing the Impact of *L. rhamnosus* Intervention on *Rumicoccus gnavus* Abundance in the Gut

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RMarkdown Notes

- to initiate a new line, enter *two spaces** at the end of the previous line and then Enter/Return
- Underscores (*text*) or single asterisk (*text*) to italicise
- Double asterisks (**text**) for bold text
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First-level heading / Title

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Second level heading

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Third-level heading

- echo = FALSE to not print the chunk's R source code in the output document
- warning = FALSE to not print warnings produced by the R code
- message = FALSE to not print any messages produced by the R code
- include = either TRUE/FALSE whether to include chunk outputs (e.g. plots) in the document
- out.width = and out.height = - size of ouput e.g. out.width = "75%"
- fig.align = "center" adjust how a figure is aligned across the page
- fig.show='hold' if your chunk prints multiple figures and you want them printed next to each other (pair with out.width = c("33%", "67%")
- Changing text colour red
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Introduction

Analysis Methods

Results and Discussion

- Present the findings of the experiment in a clear and concise manner.

Table 1: Table of Participant quantities within each Gender and Treatment Group

group	gender	quantity
LGG	F	5
LGG	M	2
Placebo	F	10
Placebo	M	4

Table 2: Summary statistics of gender and group compared with RCG abudance difference between before and after observations

group	gender	mean_difference_in_rcg_abund	sd	se
LGG	F	-4.20	41.67973	18.63974
LGG	M	141.50	23.33452	16.50000
Placebo	F	11.20	88.27709	27.91567
Placebo	M	94.25	80.26363	40.13181

- Include tables, graphs, or figures as necessary to support the results.

- Describe any patterns or trends observed in the data.

- Interpret the results of the experiment and discuss their significance.

- Compare the findings to existing literature or theoretical expectations.

- Analyze any limitations or sources of error in the experiment.

- Propose possible explanations for unexpected results and suggest areas for further research.

Table 3: Summary statistics of treatment group compared with RCG abudance difference between before and after observations

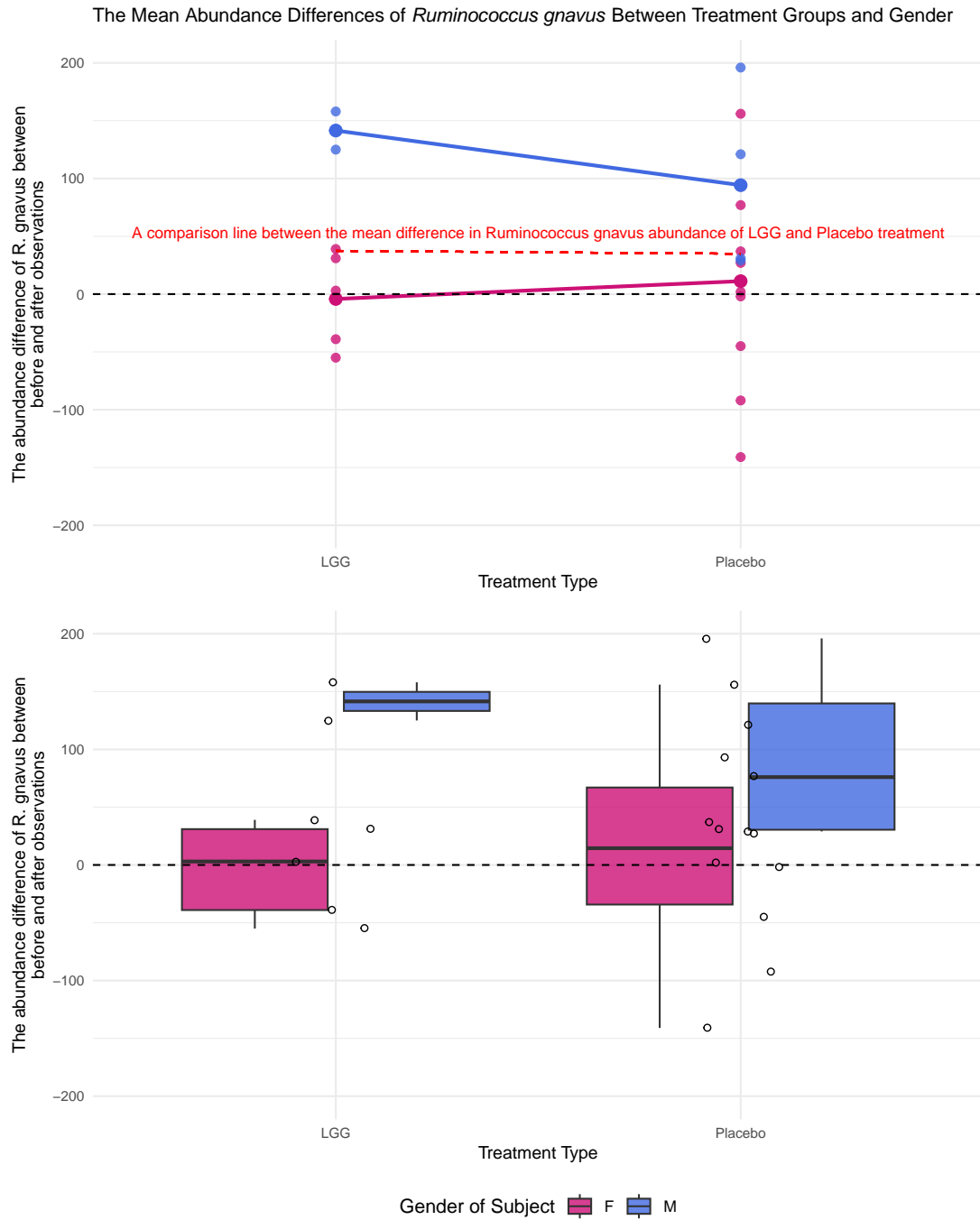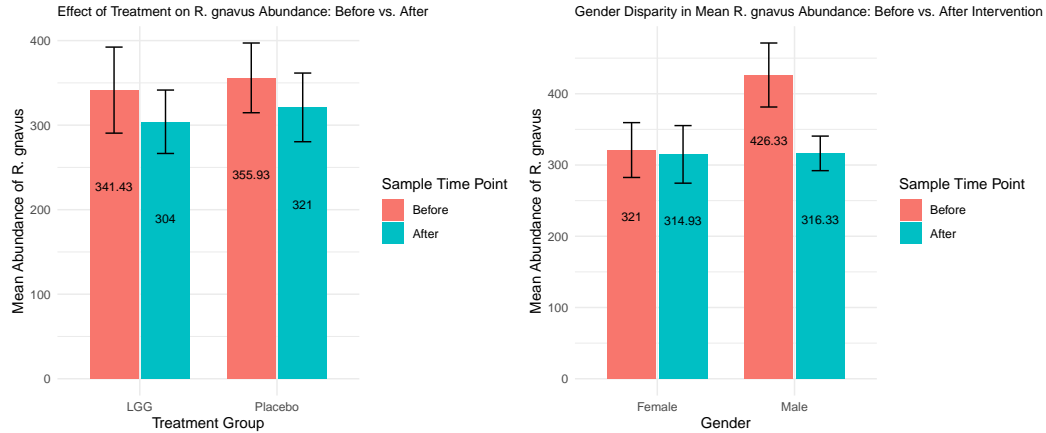| group	mean_difference_in_rcg_abund	sd	se
LGG	37.42857	79.39323	30.00782
Placebo	34.92857	91.63847	24.49141

Figure 1: Your Figure Caption

Table 4: Summary statistics of gender compared with RCG abudance difference between before and after observations
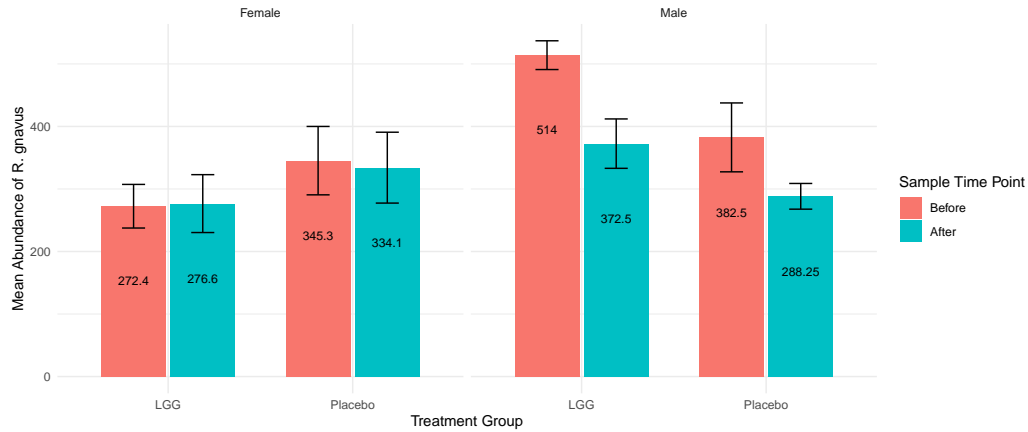
gender	mean_difference_in_rcg_abund	sd	se
F	6.066667	74.58214	19.25703
M	110.000000	67.59882	27.59710

Table 5: Linear Regresion Summary of Difference by Gender and Group

term	estimate	std.error	statistic	p.value
(Intercept)	7.73	30.10	0.26	0.80
genderM	103.93	36.13	2.88	0.01
groupPlacebo	-2.50	34.62	-0.07	0.94

Gender–specific Impact of Treatment on R. gnavus Abundance: Before vs. After

Conclusion

100 words

- Summarize the key findings of the experiment.

- Reiterate the main conclusions drawn from the results.

- Discuss the broader implications of the findings and their relevance to the field of study.

References