

Demographic Analysis

Nele Albers, Ramya Ghantasala

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This file reproduces the table with participant characteristics from the Supplementary Material..

Required input files: `scripts/preprocessing.r`

Output files: `Demographic-Analysis.pdf`

Setup

Let's import the packages that we need.

```
library(dplyr)
library(ggplot2)
library(gtsummary)
```

And let's run the pre-processing script.

```
source("scripts/preprocessing.r")
```

Summary of Participant Characteristics

The following table describes the characteristics of the 60 participants who took part in the study. Specifically, we report the age, gender, weekly exercise amount, and the stage of change for becoming physically active.

```
demographics_summary <- experiment_data %>% select(
  age,
  gender,
  weekly_exercise,
  ttm_stage)

tbl_summary(demographics_summary,
  label = list(age ~ 'Age',
    gender ~ 'Gender',
    weekly_exercise ~ 'Weekly Exercise Amount',
    ttm_stage ~ 'Physical Activity Stage of Change (TTM)'),
  statistic = list(age ~ "{mean} ({sd}), Range: {min}-{max}")) %>%
  modify_header(label = "***Variable**") %>% # update the column header
  bold_labels()
```

Variable	N = 60
Age	28 (7), Range: 19-46
Gender	
Female	24 (40%)
Male	35 (58%)
Other	1 (1.7%)
Weekly Exercise Amount	
Never (0 – 60 minutes per week)	10 (17%)
Often (more than 150 minutes per week)	15 (25%)
Sometimes (60 – 150 minutes per week)	35 (58%)
Physical Activity Stage of Change (TTM)	
Maintenance	19 (32%)
Action	16 (27%)
Preparation	11 (18%)
Contemplation	12 (20%)
Precontemplation	2 (3.3%)

This table can be found in the Supplementary Material.