# Physical Activity Vs. Obesity Project Guide

# Does Physical Activity Reduce the Likelihood of Obesity?

## **Objective**

Evaluate whether individuals who engage in physical activity are less likely to be obese (BMI > 35).

#### **Variables**

- Target variable: obese (1: No, 2: Yes)
- · Predictors:
  - vigwrk: Vigorous Work Activity (1: Yes, 2: No)
  - modwrk: Moderate Work Activity (1: Yes, 2: No)
  - wlkbik: Walk or Bicycle (1: Yes, 2: No)
  - vigrecexr: Vigorous Recreational Activities (1: Yes, 2: No)
  - modrecexr: Moderate Recreational Activities (1: Yes, 2: No)
  - sedmin: Minutes of Sedentary Activity per Week

## Method

Logistic Regression

#### **R Workflow**

```
# Load packages
library(tidyverse)
library(broom)
library(aplore3)
```

# Interpretation

- Odds ratios > 1 suggests increased likelihood of obesity.
- Significant predictors (p < 0.05) will suggest an association between activity and obesity risk.