# BIOST 544A Course Project: WHO Life Expectancy

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#### 1. Introduction

[???]Short intro about aims of this report and the data set used for this project.

#### 1.1 Data description

Variable	Type	Description
Life expectancy	Response	Life expectancy in age
Alcohol	Predictor	Alcohol consumption (liters of pure alcohol; per capita)
Hepatitis B	Predictor	Hepatitis B (HepB) immunization coverage among 1-year-olds (%)
Polio	Predictor	Polio immunization coverage among 1-year-olds (%)
Diphtheria	Predictor	TDAP immunization coverage among 1-year-olds (%)
HIV/AIDS	Predictor	HIV/AIDS deaths per 1000 live births (0-4 years)

#### 1.2 Analysis questions and aims

The dataset aims to answer the following questions:

1. Does various predicting factors which has been chosen initially really affect the Life expectancy? What are the predicting variables actually affecting the life expectancy?

- 2. Does Life Expectancy have positive or negative relationship with drinking alcohol?
- 3. What is the impact of Immunization coverage on life Expectancy?

#### 1.3 Analysis approach

[???]Describe the proposed approach for the analysis. What tests and techniques are we using?

- 2. Load, clean, and prepare data for analysis
- 3. Initial exploration of data
- 3.1 Handling missing data in predictor variables
- 3.2 Train-test split dataset

#### 3.3 Linear regression model fitting

## Results and interpretations