

# Using Bayesian in survival analysis to estimate mortality on African countries

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The primary aim of our study is examine the mortality and survival of the people from African countries.

Specifically, to estimate survival time and probability, to identify predictive factors, and to describe causes and circumstances of deaths.

## Methods

### Study Population

Many countries don't have good registries management on government institutions and thus they don't have a good record of important events such as population deaths, the Demographic and Health Surveys (DHS) facilitates multiple datasets containing data collected from questionnaires performed in households from a large list of countries.

In our study we will consider the Individual Women's data, which consist of questionnaires performed to womens. they were asked about wherever they had siblings, their survival status, age and death date (in case they have died).

### Data sources

The primary data source was the Demographic and Health Surveys (DHS) Individual Recode (IR) where each row consist of a woman and their responses on multiple questions.