

Proposal

Zhaoxiang Ding

Option 1: Data Analysis:

Cancer registration statistics for England in 2017 ^[1], obtained from The Office for National Statistics (ONS), provide data on cancer diagnoses and age-standardized incidence rates in England, 2017. This data includes various cancer types, categorized by age and sex, such as breast, prostate, lung, and colorectal cancers. Our primary goal is to analyze how age and sex influence the likelihood of developing specific cancers by using MCMC method. After examining this data, we hope to determine the probability of getting cancer by age group and cancer type.

Reference:

[1] <https://www.ons.gov.uk/peoplepopulationandcommunity/healthandsocialcare/conditionsanddiseases/datasets/cancerregistrationstatisticscancerregistrationstatisticsengland>