

ASSIGNMENT 27

The data of the associated file are per capita numbers of cigarettes smoked (sold) by 43 states and the District of Columbia in 1960 together with death rates per thousand population from various forms of cancer.

Construct a model in BUGS to assess the associate of the number of cigarettes smoked on the 4 types of cancer. Which type of cancer is more associated with smoking? Is there any state with different behaviour than the rest of them? Are there differences in the rates of the different types of cancer ?

Reference: J.F. Fraumeni, "Cigarette Smoking and Cancers of the Urinary Tract: Geographic Variations in the United States," Journal of the National Cancer Institute, 41, 1205-1211.

Authorization: free use

Number of cases: 44

Variable Names:

1. CIG = Number of cigarettes smoked (hds per capita)
2. BLAD = Deaths per 100K population from bladder cancer
3. LUNG = Deaths per 100K population from lung cancer
4. KID = Deaths per 100K population from bladder cancer
5. LEUK = Deaths per 100 K population from leukemia