

ASSIGNMENT 28

People who are concerned about their health may prefer hot dogs that are low in salt and calories. The "Hot dogs" datafile contains data on the sodium and calories contained in each of 54 major hot dog brands. The hot dogs are classified by type: beef, poultry, and meat (mostly pork and beef, but up to 15% poultry meat).

Results of a laboratory analysis of calories and sodium content of major hot dog brands. Researchers for *Consumer Reports* analyzed three types of hot dog: beef, poultry, and meat as mentioned above.

Construct the appropriate model or models in BUGS to compare differences of calories and sodium intakes for different types of hot-dogs. Is there any association between calories and sodium content?

Reference: Moore, David S., and George P. McCabe (1989). *Introduction to the Practice of Statistics*. Original source: *Consumer Reports*, June 1986, pp. 366-367.

Number of cases: 54

Variable Names:

1. Type: Type of hotdog (beef, meat, or poultry)
2. Calories: Calories per hot dog
3. Sodium: Milligrams of sodium per hot dog.