ASSIGNMENT 26

Results of a randomized comparative experiment to investigate the effect

of calcium on blood pressure in African-American men. A treatment group of 10

men received a calcium supplement for 12 weeks, and a control group of 11 men

received a placebo during the same period. All subjects had their blood pressure

tested before and after the 12-week period.

Construct a model in BUGS to assess if there are differences in the

treatment groups What is the effect of calcium on the blood pressure

measurements? Identify possible outliers. Assess the fit of your model.

Reference: Moore, David S., and George P. McCabe (1989). Introduction to the

Practice of Statistics. Original source: Lyle, Roseann M., et al., "Blood pressure and

metabolic effects of calcium supplementation in normotensive white and black men,"

JAMA, 257(1987), pp. 1772-1776,

Authorization: contact authors

Data file: Calcium Datafile htm

Number of cases: 21

Variable Names:

1. Treatment: Whether subject received calcium or placebo

2. Begin: seated systolic blood pressure before treatment

3. End: seated systolic blood pressure after treatement

4. Decrease: Decrease in blood pressure (Begin - End)