

## ASSIGNMENT 2

The dataset ear.dat is based on 214 children with acute otitis media (OME) who participated in a randomized clinical trial (Mandel et.al., 1982, Pediatric Infectious Diseases, 1, 310-316). Each child had OME at the beginning of the study in either one (unilateral cases) or both (bilateral cases) ears. Each child was randomly assigned to receive a 14-days course of one of antibiotic, either cefaclor (CEF) or amoxicillin (AMO). The focus here is on the 203 children whose middle ear status was determined at a 14-day follow up visit. The data have the following form:

Column	Variable	Format or Code
1-3	ID	
5	Clearance by 14 days	1=yes/0=no
7	Antibiotic	1=CEF/2=AMO
9	Age	1=<2 yrs/2=2-5 yrs/3=6+ yrs
11	Ear	1=1st ear/2=2nd ear

Construct a model in BUGS to estimate the efficiency of the drug treatment considering also other possible risk factors.