

**measles.dat** Roberts et al. (1995) report on the results of a survey of parents whose children had not been immunized against measles during a recent campaign to immunize all children in the first five years of secondary school. The original data were unavailable; univariate and multivariate summary statistics from these artificial data, however, are consistent with those in the paper. All variables are coded as 1 for yes, 0 for no, and 9 for no answer. A parent who refused consent (variable 4) was asked why, with responses in variables 5 through 10. If a response in variables 5 through 10 was checked, it was assigned value 1; otherwise it was assigned value 0. A parent could give more than one reason for not having the child immunized.

Column	Name	Value
1	school	school attended by child
2	form	Parent received consent form
3	returnf	Parent returned consent form
4	consent	Parent gave consent for measles immunization
5	hadmeas	Child had already had measles
6	previmm	Child had been immunized against measles
7	sideeff	Parent concerned about side effects
8	gp	Parent wanted GP to give vaccine
9	noshot	Child did not want injection
10	notser	Parent thought measles not a serious illness
11	gpadv	GP advised that vaccine was not needed
12	Mitotal	Number of nonimmunized students in school $i$ ( $= M_i$ )
13	mi	Sample size in school $i$ ( $= m_i$ )