vaccination

Generally studies on the impact of vaccination campaigns conclude that vaccination reduces infant mortality. But one study published shows at the contrary an increase in infant mortality following the vaccination campaign for DTP (diphtheria/tetanus/polio). Results presented here result from a monitoring of infant mortality in 26 villages in Burkina Fasso. 8 are located in the Pissila area and have been monitored from 1985 to 1995. The others are located in the Yako area and have been monitored from 1986 to 1996. In each village, the researchers were interviewing the family every 6 months in average. They asked several questions (wedding, births, migrations, deaths) and also measured arm circumference as an indication of malnutrition. Healthcare system consist in 8 dispensaries, all located in the Yako area. These dispensaries can give medication, but most of the families are using traditional medicine as self-medication. The vaccination schedule follows the recommendations of the WHO i.e.:

- BCG vaccination is administered at birth

- DTP at the age of 6 weeks (one dose every 28 days, only 2 doses in the Yako area)

- Measles vaccination at the age of 9 months

In addition to these 3 vaccines recommended by the WHO, the yellow fever vaccine is administered at 1 year. But in some cases, the schedule is not strictly followed by the dispensaries. A vaccination book is given to the parents at the first vaccination. The data come from these books, so the study assumes that the children who don't have one have not been vaccinated. Unfortunately, traditionally if a children died, the mother trash his belongings, including the vaccination book.

Description of the data in file "Biostatem_OMS.xls"

- NUMIND = children identification

- SEXE = Sex of the child (0, boy ; 1, girl)

- DTP1 = Age at the first injection for DTP

- RG = age at the injection for Measles

- BCG = age at the injection for BCG

- AGMER =age of the mother (in year) when the child is born

- AGEND = age at the end of the study (in month)

- END = demographic status at the end of the study (1, dead ; 2, emigrate ; 3, alive)

- MAT = condition of delivery (0, traditional ; 1, modern)

- DISP = Dispensary in the village of birth(0, no ; 1, yes)

- MALNU1 = Malnutrition during the first year (0, severe ; 1, medium ; 2, no)

- DEATH = Causes of death (1, spasms ; 2, diarrhea ; 3, fever ; 4, hepatitis ; 5, respiratory disease ; 9, other)

- GRDTP1 = DTP before 6 months ? (1, yes ; 0, no)

- GRBCG = BCG before 6 months ? (1, yes ; 0, no)

- GRRG = Measles vaccine before 12 months ? (1, yes ; 0, no)

- FRESH = Born in Wet (0) or Dry (1) season?

- DIAR = number of diarrhea before 1 year

- FEVE = number of fever before 1 year

- COU = number of cough before 1 year