Primary schools were stratified according to the residential area into urban and rural

10 schools (with ≥ 200 students) from rural areas were randomly selected based on population of the area

12 schools (with ≥ 200 students) from urban areas were randomly selected based on population of the area

The number of schools was selected randomly according to the gender population in each area

Rural area:
- 5 girls’ schools
- 5 boys’ schools

Urban area:
- 6 girls’ schools
- 6 boys’ schools

In each school a list of all students in 5 age groups (7–11 years) was obtained

20 schoolchildren were selected randomly from each age groups according to the inclusion criteria

Figure 1 Flow chart of sample design and selection