

Table 4 Multiple regression and logistic regression analyses of factors associated with dental caries prevalence

| Dependent variables | Explanatory variables | Multiple regression analyses | | | t | P | 95% CI for B | |
|-------------------------------------|-----------------------|------------------------------|-------|---------------------------|--------|-------|---------------|--------|
| | | Unstandardized coefficients | | Standardized coefficients | | | Lower | Upper |
| | | B | SE | | | | | |
| Decayed teeth | Age 15 years | 0.018 | 0.021 | 0.009 | 0.887 | 0.375 | -0.022 | 0.059 |
| | Public school | 1.948 | 0.067 | 0.330 | 29.184 | 0.000 | 1.817 | 2.079 |
| | Location (ref: rural) | | | | | | | |
| | Urban area | 1.002 | 0.111 | 0.139 | 9.007 | 0.000 | 0.784 | 1.220 |
| | Suburban area | 0.279 | 0.079 | 0.046 | 3.555 | 0.000 | 0.125 | 0.434 |
| Missing teeth | Age 15 years | -0.003 | 0.002 | -0.017 | -1.533 | 0.125 | -0.006 | 0.001 |
| | Sex | 0.015 | 0.006 | 0.031 | 2.762 | 0.006 | 0.004 | 0.026 |
| | Location (ref: rural) | | | | | | | |
| | Urban area | -0.030 | 0.009 | -0.042 | -3.156 | 0.002 | -0.048 | -0.011 |
| | Suburban area | 0.008 | 0.007 | 0.015 | 1.160 | 0.246 | -0.005 | 0.021 |
| Filled teeth | Age 15 years | 0.075 | 0.016 | 0.055 | 4.809 | 0.000 | 0.045 | 0.106 |
| | Sex | 0.112 | 0.047 | 0.027 | 2.395 | 0.017 | 0.020 | 0.203 |
| | Location (ref: rural) | | | | | | | |
| | Urban | 0.342 | 0.079 | 0.057 | 4.301 | 0.000 | 0.186 | 0.497 |
| | Suburban | 0.248 | 0.057 | 0.058 | 4.376 | 0.000 | 0.137 | 0.359 |
| DMFT | Age 15 years | 0.093 | 0.026 | 0.039 | 3.624 | 0.000 | 0.043 | 0.143 |
| | Sex | 0.112 | 0.076 | 0.016 | 1.473 | 0.141 | -0.037 | 0.260 |
| | Public school | 1.891 | 0.083 | 0.264 | 22.919 | 0.000 | 1.729 | 2.053 |
| | Location (ref: rural) | | | | | | | |
| | Urban | 1.346 | 0.137 | 0.132 | 9.793 | 0.000 | 1.077 | 1.616 |
| | Suburban | 0.556 | 0.097 | 0.076 | 5.719 | 0.000 | 0.365 | 0.747 |
| Logistic regression analysis | | | | | | | | |
| Dependent variables | Independent variables | B | SE | Wald | P | OR | 95% CI for OR | |
| | | | | | | | Lower | Upper |
| Prevalence of caries | Age 15 years | -0.021 | 0.025 | 0.663 | 0.416 | 0.979 | 0.932 | 1.030 |
| | Public school | 1.347 | 0.100 | 179.597 | 0.000 | 3.845 | 3.158 | 4.682 |
| | Location (ref: rural) | | | | | | | |
| | Urban area | -0.375 | 0.142 | 7.000 | 0.008 | 0.687 | 0.521 | 0.907 |
| | Suburban area | -0.262 | 0.118 | 4.922 | 0.027 | 0.769 | 0.610 | 0.970 |

CI = confidence interval; DMFT = decayed, missing, and filled teeth; OR = odds ratio; SE = standard error.