**Table 4 Multivariate logistic regression result of risk factors for development of MDR-TB**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Variables** | | | **MDR-TB** | | **Univariate** | | **Multivariate** | |
| **No** | **Yes** | **cOR (95% CI)** | **p-value** | **aOR (95% CI)** | **p-value** |
| **Gender** | | |  |  |  |  |  |  |
|  | Female | | 204 (89.5%) | 68 (8.7%) | 1.2 (0.75, 2.01) | 0.405 | 1.4 (0.82, 2.26) | 0.228 |
|  | Male | | 712 (91.3%) | 24 (10.5%) | 1 |  | 1 |  |
| **Age group (years)** | | |  |  |  |  |  |  |
|  | < 60 | | 709 (90.0%) | 79(10.0%) | 1.8 (0.97, 3.26) | 0.064 | 1.8 (0.96, 3.30) | 0.067 |
|  | ≥ 60 | | 207 (94.1%) | 13 (5.9%) | 1 |  | 1 |  |
| **Residence place** | | |  |  |  |  |  |  |
|  | Rural | | 274 (86.4%) | 43 (13.6%) | 2.1 (1.33, 3.17) | < 0.001 | 1.4 (0.86, 2.15) | 0.184 |
|  | Urban | | 642 (92.9%) | 49 (7.1%) | 1 |  | 1 |  |
| **TB treatment History** | | |  |  |  |  |  |  |
|  | | Retreatment | 236 (84.9%) | 42 (15.1%) | 6.1 (3.06, 12.02) | < 0.001 | 5.4 (2.68, 11.03) | < 0.001 |
|  | | On treatment | 305 (88.7%) | 39 (11.3%) | 4.4 (2.20, 8.66) |  | 4.2 (2.10, 8.45) |  |
|  | | Pre-treatment | 375 (97.2%) | 11 (2.8%) | 1 |  | 1 |  |

cOR Crude Odds Ratio, aOR Adjusted Odds Ratio