| Characteristic | Crude OR | Adjusted OR |
| --- | --- | --- |
| **Age category** |  |  |
| >23 years | 1.08 (0.80-1.45, p=0.596) | - |
| **Gender** |  |  |
| Male | 2.21 (1.65-2.96, p<0.001) | 1.55 (1.09-2.20, p=0.014) |
| **Marital status** |  |  |
| single | 2.49 (1.24-5.73, p=0.018) | 1.08 (0.46-2.76, p=0.867) |
| **Religion** |  |  |
| Christian | 3.42 (1.20-14.40, p=0.044) | 1.36 (0.40-6.30, p=0.656) |
| **Current level of studies** |  |  |
| second year | 0.91 (0.62-1.34, p=0.640) | - |
| third year | 0.88 (0.61-1.27, p=0.505) | - |
| fourth year | 0.84 (0.51-1.37, p=0.501) | - |
| post graduate | 0.58 (0.24-1.24, p=0.186) | - |
| **Adress** |  |  |
| living in a hostel | 2.15 (1.48-3.19, p<0.001) | 2.01 (1.31-3.15, p=0.002) |
| **Smokes cigarette** |  |  |
| Yes | 7.27 (4.09-13.45, p<0.001) | 3.26 (1.55-7.03, p=0.002) |
| **Use of other tobacco products** |  |  |
| Yes | 7.50 (4.17-14.10, p<0.001) | 2.27 (1.08-4.92, p=0.033) |
| **Do you drink alcohol** |  |  |
| Yes | 4.18 (2.94-6.09, p<0.001) | 1.86 (1.22-2.87, p=0.004) |
| **Does any of your friend smoke shisha** |  |  |
| Yes | 11.38 (6.75-20.79, p<0.001) | 5.59 (3.14-10.67, p<0.001) |
| **Does any of your parent smoke shisha** |  |  |
| Yes | 2.18 (1.22-3.83, p=0.007) | 1.63 (0.75-3.51, p=0.207) |
| **Does any of your sibling smoke shisha** |  |  |
| Yes | 4.19 (3.12-5.65, p<0.001) | 2.52 (1.79-3.55, p<0.001) |
| **Knowledge score categories** |  |  |
| moderate knowledge | 2.58 (1.78-3.71, p<0.001) | 1.99 (1.28-3.06, p=0.002) |
| poor knowledge | 2.24 (1.59-3.14, p<0.001) | 2.60 (1.73-3.92, p<0.001) |