**Table I : Frequency Distribution of Demographic Variables among Study Subjects with respect to their tribes.**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Variables | | Total | Bhil | | Bhilala | | Patelia | | p-value |
| N | n | % | n | % | n | % |
| Age | 6-10 years | 57 | 28 | 49.2 | 19 | 33.3 | 10 | 17.5 | <0.05 |
| 11-15 years | 218 | 95 | 43.6 | 52 | 23.8 | 71 | 32.6 |
| Gender | Male | 156 | 64 | 41.2 | 52 | 33.3 | 40 | 25.6 | <0.06 |
| Female | 119 | 59 | 49.6 | 19 | 15.9 | 41 | 34.4 |
| BMI | Mild | 72 | 20 | 27.8 | 19 | 26.4 | 33 | 45.8 | <0.00 |
| Moderate | 66 | 20 | 30.3 | 17 | 25.7 | 29 | 43.9 |
| Severe | 137 | 83 | 60.6 | 35 | 25.5 | 19 | 13.8 |
| Oral hygiene means | Toothbrush with toothpaste | 56 | 23 | 41.0 | 21 | 37.5 | 12 | 21.4 | <0.01 |
| Toothpowder with finger | 135 | 71 | 52.6 | 25 | 18.5 | 39 | 28.8 |
| Indigenous | 84 | 29 | 34.5 | 25 | 29.7 | 30 | 35.7 |
| Sugar intake | Excellent | 57 | 29 | 50.8 | 14 | 24.6 | 14 | 24.6 | <0.05 |
| Good | 125 | 44 | 35.2 | 43 | 34.4 | 38 | 30.4 |
| Watch out zone | 93 | 50 | 53.8 | 14 | 15.1 | 29 | 31.2 |

**Table II: Mean Caries Experience According to Body Mass Index among tribes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | Bhil | Bhilala | Patelia | Total |
| Body Mass Index | Mild  (17.1-18.4) | 1.92±0.26 | 1.17±0.38 | 1.65±0.48 | 1.58±0.38 |
| Moderate  (16.1 – 17) | 1.68±0.47 | 1.66±0.48 | 1.69±0.47 | 1.68±0.47 |
| Severe (>16) | 1.64±0.48 | 1.82±0.38 | 1.72±0. 46 | 1.73±0.44 |
| P value |  | 0.106 (NS) | 0.000 (S) | 0.31 (NS) | 0.001 (S) |

*Statistical test employed: = independent sample t test*

*(S) = Significant (p < 0.05)*

*(NS) = Non-significant (p > 0.05)*

**Table III : Comparison of Body Mass Index with Age, Gender, Dental Caries and CPI Score**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Variables | | Total  N(%) | Body Mass Index | | | | | | p- value |
| Mild  (17.1-18.4) | | Moderate  (16.1 – 17) | | Severe (>16) | |
| n | % | n | % | N | % |
| Age | 6-10 years | 57(20.7) | 8 | 14.1 | 10 | 17.5 | 39 | 68.4 | 0.01 (S) |
| 11-15 years | 218(79.3) | 64 | 29.4 | 56 | 25.7 | 98 | 44.9 |
| Gender | Male | 156 (56.7) | 45 | 28.8 | 38 | 24.4 | 73 | 46.8 | 0.27 (NS) |
| Female | 119 (43.2) | 27 | 22.7 | 28 | 23.5 | 64 | 53.8 |
| Dental caries | Present | 169 (61.4) | 52 | 25.4 | 43 | 30.8 | 74 | 43.8 | 0.02 (S) |
| Absent | 106 (38.6) | 63 | 59.4 | 23 | 21.7 | 20 | 18.6 |
| CPI | CPI score 1 | 77 (28) | 12 | 15.6 | 18 | 23.4 | 47 | 61 | 0.02 (S) |
| CPI score 2 | 198 (72) | 60 | 30.3 | 48 | 24.2 | 90 | 45.5 |

*Statistical test employed: = Chi square test*

*(S) = Significant (p < 0.05)*

*(NS) = Non-significant (p > 0.05)*

**Table IV: Effect of Independent Variable on Dental Caries (Dependent Variable) Using Bivariate Analysis**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Variables** | | **Unadjusted OR** | **95% CI** | **p-value** | **Adjusted OR** | **95% CI** | **p-value** |
| **Age** | *11-15* | 1 | 0.10 – 0.19 | 0.001\* | 1 | 0.08- 0.18 | 0.001\* |
| *6-10* | 0.14 | 0.12 |
| **Gender** | *Female* | 1 | 0.19 – 0.35 | 0.001\* | 1 | 0.10-0.22 | 0.001\* |
| *Male* | 0.27 | 0.15 |
| **BMI** | *17.1-18.4* | 1 |  |  |  |  |  |
| *16.1-17* | 0.86 | 0.51 – 1.44 | 0.574 |  |  |  |
| *>16* | 1.28 | 0.79 – 2.07 | 0.308 |  |  |  |
| **Daily sugar intake** | *Watch out zone* | 1 |  |  | 1 |  |  |
| *Good* | 0.46 | 0.20 – 1.04 | 0.064 | 0.33 | 0.13–0.85 | 0.035\* |
| *Excellent* | 0.21 | 0.10 – 0.45 | 0.001\* | 0.30 | 0.09– 0.92 | 0.021\* |
| **Tribes** | *Bhil* | 1 |  |  |  |  |  |
| *Bhilala* | 0.87 | 0.43 – 1.79 | 0.847 |  |  |  |
| *Patelia* | 1.07 | 0.54 – 2.13 | 0.710 |  |  |  |

**Figure 1 – Treatment Needs among Malnourished Tribal Children (No. of teeth examined)**