**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)**