Table 1 Level of Knowledge, Attitude and Practices towards Menstrual hygiene

|  |  |  |
| --- | --- | --- |
| Variable | Frequency(n=353) | Percentage% |
| Knowledge | | |
| Good knowledge | 336 | 95.18 |
| Poor knowledge | 17 | 4.82 |
| Attitude |  |  |
| Good Attitude | 234 | 66.29 |
| Poor Attitude | 119 | 33.71 |
| Practice |  | |
| Good practice | 315 | 89.24 |
| Poor practice | 38 | 10.76 |

Figure 1 Frequency distribution of level of knowledge on menstrual hygiene among secondary school girls

Figure 2 Frequency distribution of attitude towards menstrual hygiene among secondary school girls

Figure 3 Frequency distribution of level of menstrual hygiene practices among secondary school girls

Table 2 Summary statistics of key variables

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Variable | Observations | Mean | Std. Dev. | Min | Max |
| Age | 353 | 15.63456 | 2.02671 | 11 | 21 |
| Age at menarche | 353 | 12.7932 | 1.430098 | 10 | 19 |
| Parent's monthly income | 354 | 59200.85 | 55430.38 | 10000 | 500000 |

Table 3 Socio-Demographic data

|  |  |  |
| --- | --- | --- |
| Variable | Frequency(n=354) | Percentage% |
| Age category | |  |
| Early adolescence | 55 | 15.58 |
| Mid adolescence | 184 | 52.12 |
| Late adolescence | 104 | 29.46 |
| Early adulthood | 10 | 2.83 |
| Class |  |  |
| Junior class | 117 | 33.05 |
| Senior class | 237 | 66.95 |
| Religion |  |  |
| Christianity | 160 | 45.71 |
| Islam | 190 | 54.29 |
| Ethnicity |  |  |
| Fulani | 9 | 2.55 |
| Hausa | 24 | 6.8 |
| Igbo | 20 | 5.67 |
| Others | 6 | 1.7 |
| Yoruba | 294 | 83.29 |
| Age at menarche | |  |
| Early adolescence | 252 | 71.39 |
| Late adolescence | 2 | 0.57 |
| Mid adolescence | 99 | 28.05 |
| Parent's occupation | |  |
| Civil servant | 74 | 20.96 |
| Farming | 64 | 18.13 |
| Others | 19 | 5.38 |
| Trader | 187 | 52.97 |
| Unemployed | 9 | 2.55 |
| Parent's level of education | | |
| No education | 52 | 14.73 |
| Primary education | 41 | 11.61 |
| Secondary education | 119 | 33.71 |
| Tertiary education | 141 | 39.94 |
| Parent's monthly income | | |
| Less than 18000 | 10 | 2.82 |
| 18000 - 30000 | 87 | 24.58 |
| Above 30000 | 257 | 72.6 |

Table 4 Chi2 test for determinants of menstrual hygiene practices

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Variable | Good Practice  Frequency(n=353)  Percentage% | Poor Practice  Frequency(n=353)  Percentage% | Total  Frequency(n=353)  Percentage% | Chi2 Value | P Value |
| Age category | |  |  |  |  |
| Early adolescence | 47 | 8 | 55 | 2.0654 | 0.559 |
| 14.92 | 21.05 | 15.58 |
| Mid adolescence | 165 | 19 | 184 |
| 52.38 | 50 | 52.12 |
| Late adolescence | 93 | 11 | 104 |
| 29.52 | 28.95 | 29.46 |
| Early adulthood | 10 | 0 | 10 |
| 3.17 | 0 | 2.83 |
| Class |  |  |  |  |  |
| Junior class | 99 | 18 | 117 | 3.8881 | 0.049 |
| 31.43 | 47.37 | 33.14 |
| Senior class | 216 | 20 | 236 |
| 68.57 | 52.63 | 66.86 |
| Religion |  |  |  |  |  |
| Christianity | 143 | 17 | 160 | 0.0164 | 0.898 |
| 45.83 | 44.74 | 45.71 |
| Islam | 169 | 21 | 190 |
| 54.17 | 55.26 | 54.29 |
| Ethnicity |  |  |  |  |  |
| Fulani | 9 | 0 | 9 | 11.058 | 0.026 |
| 2.86 | 0 | 2.55 |
| Hausa | 17 | 7 | 24 |
| 5.4 | 18.42 | 6.8 |
| Igbo | 19 | 1 | 20 |
| 6.03 | 2.63 | 5.67 |
| Others | 6 | 0 | 6 |
| 1.9 | 0 | 1.7 |
| Yoruba | 264 | 30 | 294 |
| 83.81 | 78.95 | 83.29 |
| Age at menarche | |  |  |  |  |
| Early adolescence | 224 | 28 | 252 | 0.3181 | 0.853 |
| 71.11 | 73.68 | 71.39 |
| Mid adolescence | 89 | 10 | 99 |
| 28.25 | 26.32 | 28.05 |
| Late adolescence | 2 | 0 | 2 |
| 0.63 | 0 | 0.57 |
| Parent's occupation | |  |  |  |  |
| Civil servant | 65 | 9 | 74 | 4.9425 | 0.293 |
| 20.63 | 23.68 | 20.96 |
| Farming | 59 | 5 | 64 |
| 18.73 | 13.16 | 18.13 |
| Others | 19 | 0 | 19 |
| 6.03 | 0 | 5.38 |
| Trader | 163 | 24 | 187 |
| 51.75 | 63.16 | 52.97 |
| Unemployed | 9 | 0 | 9 |
| 2.86 | 0 | 2.55 |
| Parent's level of education | | |  |  |  |
| No education | 47 | 5 | 52 | 0.1643 | 0.983 |
| 14.92 | 13.16 | 14.73 |
| Primary education | 36 | 5 | 41 |
| 11.43 | 13.16 | 11.61 |
| Secondary education | 106 | 13 | 119 |
| 33.65 | 34.21 | 33.71 |
| Tertiary education | 126 | 15 | 141 |
| 40 | 39.47 | 39.94 |
| Parent's monthly income | | |  |  |  |
| Less than 18000 | 9 | 1 | 10 | 0.03 | 0.985 |
| 2.86 | 2.63 | 2.83 |
| 18000 - 30000 | 78 | 9 | 87 |
| 24.76 | 23.68 | 24.65 |
| Above 30000 | 228 | 28 | 256 |
| 72.38 | 73.68 | 72.52 |