**Table 1. Overview of hand washing using soap knowledge level, attitudes, and behaviors and characteristics of respondents**

|  |  |  |
| --- | --- | --- |
| Category | Frequency | Percentage (%) |
| Knowledge level of HWUS | | |
| Good | 76 | 71,0 |
| Poor | 31 | 29,0 |
| Attitudes level of HWUS | | |
| Positive | 86 | 80,4 |
| Negative | 21 | 19,6 |
| Behaviors level of HWUS | | |
| Active | 99 | 92,5 |
| Passive | 8 | 7,5 |
| Age distribution | | |
| 17-25 years | 22 | 20,6 |
| 26-35 years | 15 | 14 |
| 36-45 years | 33 | 30,8 |
| 46-60 years | 37 | 34,6 |
| Severity of disease | | |
| Asymptomatic | 63 | 58,9 |
| Mild | 26 | 24,3 |
| Moderate | 13 | 12,1 |
| Severe | 5 | 4,7 |
| Critically ill | 0 | 0 |
| Commorbidity | | |
| With | 34 | 31,8 |
| Without | 73 | 68,2 |

**Table 2. Hand washing using soap knowledge relationship to the severity of COVID-19 patients' disease**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Age** | **Knowledge of HWUS** | **Severity of COVID-19 patients' disease** | | | | | | | |  | |
| **(years)** | Asymptomatic | | Mild | | Moderate | | Severe | |
|  | N | % | N | % | N | % | N | % | Total % | ***p*** |
| 17-25 | Good | 14 | 63,6 | 4 | 18,2 | 0 | 0 | 0 | 0 | 81,8 | **0,905** |
|  | Poor | 3 | 13,6 | 1 | 4,5 | 0 | 0 | 0 | 0 | 18,2 |
|  | **Total** | 17 | 77,3 | 5 | 22,7 | 0 | 0 | 0 | 0 | 100 |
| 26-35 | Good | 11 | 73,3 | 0 | 0 | 0 | 0 | 0 | 0 | 73,3 | **0,086** |
|  | Poor | 3 | 20 | 0 | 0 | 1 | 6,7 | 0 | 0 | 26,7 |
|  | **Total** | 14 | 93,3 | 0 | 0 | 1 | 6,7 | 0 | 0 | 100 |
| 36-45 | Good | 16 | 48,5 | 10 | 30,3 | 2 | 6,1 | 1 | 3 | 87,9 | **0,822** |
|  | Poor | 2 | 6,1 | 2 | 6,1 | 0 | 0 | 0 | 0 | 12,1 |
|  | **Total** | 18 | 54,5 | 12 | 36,4 | 2 | 6 | 1 | 1 | 100 |
| 46-60 | Good | 9 | 24,3 | 3 | 8,1 | 5 | 13,5 | 1 | 2,7 | 48,6 | **0,374** |
|  | Poor | 5 | 13,5 | 6 | 16,2 | 5 | 13,5 | 3 | 8,1 | 51,4 |
|  | **Total** | 14 | 37,8 | 9 | 24,3 | 10 | 27 | 4 | 10,8 | 100 |

**Table 3. Relationship of HWUS attitude to the severity of COVID-19 patients' disease**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Age** | **Attitudes of HWUS** | **Severity of COVID-19 patients' disease** | | | | | | | |  | |
| **(years)** | Asymptomatic | | Mild | | Moderate | | Severe | |
|  | N | % | N | % | N | % | N | % | Total % | ***p*** |
| 17-25 | Positive | 16 | 72,7 | 0 | 0 | 5 | 22,7 | 0 | 0 | 95,5 | **0,579** |
|  | Negative | 1 | 4,5 | 0 | 0 | 0 | 0 | 0 | 0 | 4,5 |
|  | **Total** | 17 | 77,3 | 0 | 0 | 5 | 22,7 | 0 | 0 | 100 |
| 26-35 | Positive | 14 | 93,3 | 0 | 0 | 0 | 0 | 0 | 0 | 93,3 | **0,000** |
|  | Negative | 0 | 0 | 0 | 0 | 1 | 6,7 | 0 | 0 | 6,7 |
|  | **Total** | 14 | 93,3 | 0 | 0 | 1 | 6,7 | 0 | 0 | 100 |
| 36-45 | Positive | 17 | 51,5 | 12 | 36,4 | 2 | 6,1 | 1 | 3 | 97 | **0,835** |
|  | Negative | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
|  | **Total** | 18 | 54,5 | 12 | 36,4 | 2 | 6,1 | 1 | 3 | 100 |
| 46-60 | Positive | 4 | 10,8 | 5 | 13,5 | 6 | 16,2 | 4 | 10,8 | 51,4 | **0,070** |
|  | Negative | 10 | 27 | 4 | 10,8 | 4 | 10,8 | 0 | 0 | 48,6 |
|  | **Total** | 14 | 37,8 | 9 | 24,3 | 10 | 27 | 4 | 10,8 | 100 |
| 17-60 | Positive | 51 | 47,7 | 22 | 20,6 | 8 | 7,5 | 5 | 4,7 | 80,4 | **0,216** |
|  | Negative | 12 | 11,2 | 4 | 3,7 | 5 | 4,7 | 0 | 0 | 19,6 |
|  | **Total** | 63 | 58,9 | 26 | 24,3 | 13 | 12,1 | 5 | 4,7 | 100 |

**Table 4. Relationship of HWUS attitude to the severity of COVID-19 patients' disease**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Age** | **Behaviors of HWUS** | **Severity of COVID-19 patients' disease** | | | | | | | |  | |
| **(years)** | Asymptomatic | | Mild | | Moderate | | Severe | |
|  | N | % | N | % | N | % | N | % | Total % | ***p*** |
| 17-25 | Active | 16 | 72,7 | 0 | 0 | 5 | 22,7 | 0 | 0 | 95,5 | **0,579** |
|  | Passive | 1 | 4,5 | 0 | 0 | 0 | 0 | 0 | 0 | 4,5 |
|  | **Total** | 17 | 77,3 | 0 | 0 | 5 | 22,7 | 0 | 0 | 100 |
| 26-35 | Active | 13 | 86,7 | 0 | 0 | 1 | 6,7 | 0 | 0 | 93,3 | **0,782** |
|  | Passive | 1 | 6,7 | 0 | 0 | 0 | 0 | 0 | 0 | 6,7 |
|  | **Total** | 14 | 93,3 | 0 | 0 | 1 | 6,7 | 0 | 0 | 100 |
| 36-45 | Active | 17 | 51,5 | 12 | 36,4 | 2 | 6,1 | 1 | 3 | 97 | **0,835** |
|  | Passive | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
|  | **Total** | 18 | 54,5 | 12 | 36,4 | 2 | 6,1 | 1 | 3 | 100 |
| 46-60 | Active | 13 | 35,1 | 9 | 24,3 | 7 | 18,9 | 3 | 8,1 | 86,5 | **0,198** |
|  | Passive | 1 | 2,7 | 0 | 0 | 3 | 8,1 | 1 | 2,7 | 13,5 |
|  | **Total** | 14 | 37,8 | 9 | 24,3 | 10 | 27 | 4 | 10,8 | 100 |
| 17-60 | Active | 59 | 55,1 | 25 | 23,4 | 10 | 10 | 4 | 3,7 | 91,6 | **0,136** |
|  | Passive | 4 | 3,7 | 1 | 0,9 | 3 | 2,8 | 1 | 0,9 | 8,4 |
|  | **Total** | 63 | 58,9 | 26 | 24,3 | 13 | 12,8 | 5 | 4,7 | 100 |