**Supplemental Table 5: Factors associated with a knowledge score >95 percent among participants (n=161) in the Happy Teen 2 Program at 18 months, Thailand 2015-2016.**

| **Factor** | **Score >95 %** | **Bivariable analysis** | **Multivariable analysis** |
| --- | --- | --- | --- |
| **n** | **%** | **Odds ratio** | **95% CI** | **p-valuea** | **Odds ratio** | **95% CI** | **p-valuea** |
|  |  | **Lower** | **Upper** | **Lower** | **Upper** |
| 1. Hospital |  |  |  |  |  |  |  |  |  |  |
| * Siriraj
 | 20 | 33.3 | 1 |  |  |  | 1 |  |  |  |
| * QSNICH
 | 40 | 66.7 | 2.12 | 1.09 | 4.12 | 0.026 | 2.43 | 1.18 | 4.98 | 0.017 |
| 2. Age |  |  |  |  |  |  |  |  |  |  |
| * <17 yrs
 | 25 | 41.7 | 1 |  |  |  |  |  |  |  |
| * ≥17 yrs
 | 35 | 58.3 | 1.08 | 0.57 | 2.06 | 0.814 |  |  |  |  |
| 3. Gender |  |  |  |  |  |  |  |  |  |  |
| * Female
 | 22 | 36.7 | 1 |  |  |  | 1 |  |  |  |
| * Male
 | 38 | 63.3 | 1.83 | 0.95 | 3.53 | 0.069 | 1.96 | 0.96 | 4.21 | 0.067 |
| 4. Occupation |  |  |  |  |  |  |  |  |  |  |
| * Unemployment
 | 1 | 1.7 | 1 |  |  |  | 1 |  |  |  |
| * Employee
 | 3 | 5.0 | 3.54 | 0.32 | 39.14 | 0.302 | 4.26 | 0.35 | 51.6 | 0.255 |
| * Student, Non-formal education student d
 | 56 | 93.3 | 9.46 | 1.20 | 74.39 | 0.033 | 5.38 | 0.64 | 45.58 | 0.122 |
| 5. Highest Education level |  |  |  |  |  |  |  |  |  |  |
| * None, Primary, Junior high school, Other
 | 20 | 33.3 | 11. |  |  |  | 1 |  |  |  |
| * Bachelor degree, High school
 | 40 | 66.7 | 2.30 | 1.18 | 4.46 | 0.014 | 2.15 | 1.03 | 4.48 | 0.041 |
| 6. Literacy |  |  |  |  |  |  |  |  |  |  |
| * Fair, Illiterate
 | 5 | 8.3 | 1 |  |  |  |  |  |  |  |
| * Very good
 | 55 | 91.7 | 2.55 | 0.90 | 7.23 | 0.079 |  |  |  |  |
| 7. Main Caretaker(s) |  |  |  |  |  |  |  |  |  |  |
| * Others (orphanage, self-care)
 | 3 | 5.0 | 1 |  |  |  |  |  |  |  |
| * Relatives
 | 27 | 45.0 | 2.11 | 0.54 | 8.22 | 0.284 |  |  |  |  |
| * Parents
 | 30 | 50.0 | 2.56 | 0.66 | 9.96 | 0.176 |  |  |  |  |
| 8. Parents Status |  |  |  |  |  |  |  |  |  |  |
| * Both alive
 | 18 | 30.0 | 1 |  |  |  | 1 |  |  |  |
| * Both dead
 | 8 | 13.3 | 0.30 | 0.11 | 0.81 | 0.018 | 0.22 | 0.07 | 0.67 | 0.008 |
| * One parent dead, Unknown
 | 34 | 56.7 | 0.76 | 0.35 | 1.63 | 0.476 | 0.60 | 0.26 | 1.39 | 0.233 |
| 9. Monthly household income (per month) |  |  |  |  |  |  |  |  |  |  |
| * <20,000 baht
 | 47 | 78.3 | 1 |  |  |  |  |  |  |  |
| * >20,000 baht
 | 13 | 21.7 | 0.89 | 0.41 | 1.91 | 0.760 |  |  |  |  |
| 10. Period from HIV disclosure to enrollment (months) | - | - | 1.01 | 1 | 1.02 | 0.115 |  |  |  |  |
| 11. Participated in Happy Teen 1 Program |  |  |  |  |  |  |  |  |  |  |
| * No
 | 41 | 68.3 | 1 |  |  |  |  |  |  |  |
| * Yes
 | 19 | 31.7 | 0.91 | 0.46 | 1.81 | 0.794 |  |  |  |  |
| 12. Time in HIV care (years): *median=13* |  |  |  |  |  |  |  |  |  |  |
| * < median
 | 24 | 40.0 | 1 |  |  |  |  |  |  |  |
| * > median
 | 36 | 60.0 | 1.47 | 0.77 | 2.81 | 0.243 |  |  |  |  |
| 13. Period of ARV use (years): *median=13* |  |  |  |  |  |  |  |  |  |  |
| * < median
 | 26 | 43.3 | 1 |  |  |  |  |  |  |  |
| * > median
 | 34 | 56.7 | 1.44 | 0.76 | 2.75 | 0.263 |  |  |  |  |
| 14. Plasma HIV RNA concentration |  |  |  |  |  |  |  |  |  |  |
| * VL <40 copies/ml
 | 48 | 80.0 | 1 |  |  |  |  |  |  |  |
| * VL >= 40 copies/ml
 | 12 | 20.0 | 0.80 | 0.37 | 1.75 | 0.546 |  |  |  |  |
| 15. Participated in all sessions |  |  |  |  |  |  |  |  |  |  |
| * Not all sessions
 | 36 | 60.0 | 1 |  |  |  |  |  |  |  |
| * All sessions
 | 24 | 40.0 | 1.44 | 0.74 | 2.8 | 0.285 |  |  |  |  |

***Note****: CI = confidence interval*

 *a p-values for logistic regression*

 *All factors adjusted for hospital, gender, occupation, highest education and parent status.*