**Appendix Table A2.** Association of adolescent’s suicidal behaviours and associated factors across country income group

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Characteristics** | Low-Income Countries | | | | | |
| Suicidal ideation | | Suicidal plan | | Suicidal attempts | |
| AOR (95% CI) | p-value | AOR (95% CI) | p-value | AOR (95% CI) | p-value |
| **Violence and unintentional injured** |  |  |  |  |  |  |
| Physically attacked (ref = no) | 1.25 (1.06 , 1.46) | 0.006 | 1.19 (1.02 , 1.39) | 0.031 | 1.39 (1.16 , 1.68) | <0.001 |
| Physically fighting (ref = no) | 1.29 (1.11 , 1.50) | 0.001 | 1.24 (1.07 , 1.45) | 0.005 | 1.34 (1.12 , 1.60) | 0.001 |
| Seriously injured (ref = no) | 1.43 (1.23 , 1.65) | <0.001 | 1.51 (1.30 , 1.74) | <0.001 | 1.85 (1.54 , 2.21) | <0.001 |
| Victimisation (ref = no) | 1.34 (1.15 , 1.57) | <0.001 | 1.57 (1.36 , 1.83) | <0.001 | 2.03 (1.70 , 2.42) | <0.001 |
| **Psychosocial factors** |  |  |  |  |  |  |
| Loneliness (ref = never) |  |  |  |  |  |  |
| *Sometimes or rarely* | 0.96 (0.81 , 1.13) | 0.628 | 0.97 (0.83 , 1.15) | 0.743 | 0.92 (0.75 , 1.13) | 0.422 |
| *Most of time or always* | 1.79 (1.46 , 2.18) | <0.001 | 1.54 (1.26 , 1.88) | <0.001 | 1.47 (1.16 , 1.87) | 0.001 |
| Anxiety (ref = never) |  |  |  |  |  |  |
| *Sometimes or rarely* | 1.07 (0.79 , 1.45) | 0.662 | 1.04 (0.77 , 1.40) | 0.801 | 1.26 (0.87 , 1.82) | 0.215 |
| *Most of time or always* | 1.36 (0.92 , 1.99) | 0.119 | 1.21 (0.82 , 1.77) | 0.337 | 1.45 (0.95 , 2.22) | 0.088 |
| **Protective factors** |  |  |  |  |  |  |
| Parents check homework (ref = most of time or always) |  |  |  |  |  |  |
| *Never* | 1.14 (0.94 , 1.37) | 0.193 | 1.05 (0.87 , 1.27) | 0.623 | 1.12 (0.89 , 1.41) | 0.332 |
| *Sometimes or rarely* | 1.04 (0.87 , 1.24) | 0.661 | 1.03 (0.86 , 1.23) | 0.742 | 0.96 (0.78 , 1.18) | 0.688 |
| Parents understand problem (ref = most of time or always) |  |  |  |  |  |  |
| *Never* | 1.57 (1.12 , 2.19) | 0.008 | 1.56 (1.12 , 2.17) | 0.008 | 1.17 (0.76 , 1.81) | 0.474 |
| *Sometimes or rarely* | 1.16 (0.84 , 1.60) | 0.361 | 1.06 (0.77 , 1.45) | 0.722 | 1.09 (0.74 , 1.62) | 0.651 |
| Parent monitoring (ref = most of time or always) |  |  |  |  |  |  |
| *Never* | 1.36 (0.96 , 1.93) | 0.086 | 1.31 (0.92 , 1.85) | 0.134 | 1.45 (0.94 , 2.25) | 0.092 |
| *Sometimes or rarely* | 1.36 (1.00 , 1.85) | 0.052 | 1.43 (1.06 , 1.94) | 0.021 | 1.21 (0.82 , 1.78) | 0.347 |
| **Lifestyle factors** |  |  |  |  |  |  |
| Adolescent obesity status (ref = normal weight) |  |  |  |  |  |  |
| *Overweight* | 1.12 (0.92 , 1.35) | 0.247 | 1.21 (1.01 , 1.46) | 0.043 | 1.15 (0.91 , 1.44) | 0.238 |
| *Obesity* | 0.99 (0.81 , 1.20) | 0.896 | 1.11 (0.92 , 1.34) | 0.283 | 1.23 (0.96 , 1.57) | 0.098 |
| Sitting activities per day (ref = <1 hour) |  |  |  |  |  |  |
| *1-2 hours* | 0.91 (0.75 , 1.09) | 0.298 | 0.82 (0.68 , 0.98) | 0.034 | 1.00 (0.81 , 1.24) | 0.980 |
| *3-4 hours* | 0.94 (0.77 , 1.15) | 0.565 | 0.95 (0.78 , 1.16) | 0.602 | 0.88 (0.69 , 1.13) | 0.322 |
| *>4 hours* | 1.23 (1.02 , 1.49) | 0.034 | 1.16 (0.96 , 1.40) | 0.123 | 1.15 (0.91 , 1.45) | 0.237 |
| **Demographic factors** |  |  |  |  |  |  |
| Age in years (ref = 11- 12 years) |  |  |  |  |  |  |
| *13 year* | 0.95 (0.66 , 1.36) | 0.764 | 0.80 (0.57 , 1.13) | 0.210 | 0.82 (0.51 , 1.31) | 0.402 |
| *14 year* | 0.96 (0.68 , 1.36) | 0.837 | 0.84 (0.61 , 1.15) | 0.278 | 0.80 (0.51 , 1.25) | 0.329 |
| *15 year* | 1.41 (1.01 , 1.97) | 0.047 | 1.03 (0.75 , 1.41) | 0.855 | 1.19 (0.77 , 1.84) | 0.432 |
| *16 year* | 1.22 (0.86 , 1.72) | 0.263 | 1.03 (0.74 , 1.42) | 0.878 | 0.92 (0.59 , 1.44) | 0.716 |
| *17 year* | 1.67 (1.19 , 2.35) | 0.003 | 1.41 (1.03 , 1.94) | 0.035 | 1.37 (0.89 , 2.11) | 0.152 |
| Female (ref = Male) |  |  | 1.33 (1.16 , 1.54) | <0.001 | 1.20 (1.01 , 1.43) | 0.036 |
| **Food security** (ref = Food security) |  |  |  |  |  |  |
| Moderate food insecurity | 1.09 (0.94 , 1.27) | 0.248 | 1.06 (0.91 , 1.23) | 0.444 | 1.05 (0.87 , 1.26) | 0.616 |
| Severe food insecurity | 0.91 (0.72 , 1.15) | 0.443 | 1.03 (0.82 , 1.29) | 0.806 | 0.93 (0.72 , 1.20) | 0.576 |
| **Interaction of parental supports and level of anxiety** |  |  |  |  |  |  |
| Parents understand problem and level of anxiety (ref = most of time or always × level of anxiety-never) |  |  |  |  |  |  |
| *Never × level of anxiety (sometimes or rarely)* | 1.20 (0.79 , 1.84) | 0.394 | 1.13 (0.75 , 1.72) | 0.553 | 1.34 (0.78 , 2.29) | 0.291 |
| *Never × level of anxiety (most of time or always)* | 1.72 (0.98 , 3.00) | 0.057 | 1.89 (1.08 , 3.30) | 0.026 | 1.85 (0.97 , 3.51) | 0.062 |
| *Sometimes or rarely × level of anxiety (sometimes or rarely)* | 1.08 (0.72 , 1.61) | 0.708 | 1.19 (0.80 , 1.76) | 0.396 | 1.00 (0.62 , 1.63) | 0.985 |
| *Sometimes or rarely × level of anxiety (most of time or always)* | 1.15 (0.66 , 1.98) | 0.625 | 1.15 (0.66 , 1.99) | 0.624 | 1.22 (0.67 , 2.24) | 0.513 |
| Parents monitoring and level of anxiety (ref = most of time or always × level of anxiety-never) |  |  |  |  |  |  |
| *Never × level of anxiety (sometimes or rarely)* | 0.89 (0.57 , 1.39) | 0.610 | 0.99 (0.64 , 1.54) | 0.975 | 0.88 (0.51 , 1.52) | 0.645 |
| *Never × level of anxiety (most of time or always)* | 0.99 (0.55 , 1.77) | 0.962 | 0.78 (0.43 , 1.41) | 0.402 | 0.83 (0.43 , 1.61) | 0.580 |
| *Sometimes or rarely × level of anxiety (sometimes or rarely)* | 0.91 (0.62 , 1.33) | 0.629 | 0.84 (0.58 , 1.22) | 0.357 | 0.95 (0.59 , 1.54) | 0.843 |
| *Sometimes or rarely × level of anxiety (most of time or always)* | 0.95 (0.56 , 1.61) | 0.861 | 0.98 (0.58 , 1.65) | 0.934 | 1.11 (0.61 , 2.00) | 0.742 |

**Appendix Table A2.** Association of adolescent’s suicidal behaviours and associated factors across country income group (continued)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Characteristics | Lower-Middle Income Countries | | | | | | |
| Suicidal ideation | | Suicidal plan | | | Suicidal attempts | |
| AOR (95% CI) | p-value | AOR (95% CI) | p-value | AOR (95% CI) | | p-value |
| **Violence and unintentional injured** |  |  |  |  |  | |  |
| Physically attacked (ref = no) | 1.17 (1.09 , 1.25) | <0.001 | 1.20 (1.12 , 1.29) | <0.001 | 1.34 (1.25 , 1.45) | | <0.001 |
| Physically fighting (ref = no) | 1.41 (1.32 , 1.51) | <0.001 | 1.32 (1.24 , 1.42) | <0.001 | 1.49 (1.39 , 1.61) | | <0.001 |
| Seriously injured (ref = no) | 1.51 (1.42 , 1.61) | <0.001 | 1.45 (1.35 , 1.55) | <0.001 | 1.86 (1.73 , 2.01) | | <0.001 |
| Victimisation (ref = no) | 1.48 (1.38 , 1.58) | <0.001 | 1.46 (1.36 , 1.56) | <0.001 | 1.90 (1.77 , 2.05) | | <0.001 |
| **Psychosocial factors** |  |  |  |  |  | |  |
| Loneliness (ref = never) |  |  |  |  |  | |  |
| *Sometimes or rarely* | 1.22 (1.13 , 1.32) | <0.001 | 0.97 (0.89 , 1.04) | 0.394 | 1.07 (0.98 , 1.17) | | 0.112 |
| *Most of time or always* | 2.38 (2.16 , 2.63) | <0.001 | 1.79 (1.62 , 1.98) | <0.001 | 1.76 (1.57 , 1.98) | | <0.001 |
| Anxiety (ref = never) |  |  |  |  |  | |  |
| *Sometimes or rarely* | 1.24 (1.08 , 1.43) | 0.002 | 1.34 (1.16 , 1.55) | <0.001 | 1.57 (1.33 , 1.86) | | <0.001 |
| *Most of time or always* | 2.84 (2.33 , 3.46) | <0.001 | 3.12 (2.55 , 3.83) | <0.001 | 3.58 (2.85 , 4.50) | | <0.001 |
| **Protective factors** |  |  |  |  |  | |  |
| Parents check homework (ref = most of time or always) |  |  |  |  |  | |  |
| *Never* | 1.20 (1.10 , 1.31) | <0.001 | 1.16 (1.06 , 1.27) | 0.002 | 1.05 (0.95 , 1.16) | | 0.325 |
| *Sometimes or rarely* | 1.07 (1.00 , 1.15) | <0.001 | 1.04 (0.96 , 1.12) | 0.316 | 1.03 (0.95 , 1.12) | | 0.504 |
| Parents understand problem (ref = most of time or always) |  |  |  |  |  | |  |
| *Never* | 1.62 (1.39 , 1.88) | <0.001 | 1.44 (1.23 , 1.68) | <0.001 | 1.22 (1.02 , 1.47) | | 0.033 |
| *Sometimes or rarely* | 1.36 (1.18 , 1.57) | <0.001 | 1.33 (1.15 , 1.54) | <0.001 | 1.12 (0.94 , 1.33) | | 0.216 |
| Parents monitoring (ref = most of time or always) |  |  |  |  |  | |  |
| *Never* | 1.36 (1.17 , 1.59) | <0.001 | 1.34 (1.14 , 1.57) | <0.001 | 1.29 (1.06 , 1.57) | | 0.010 |
| *Sometimes or rarely* | 1.21 (1.06 , 1.38) | 0.005 | 1.37 (1.20 , 1.58) | <0.001 | 1.45 (1.23 , 1.71) | | <0.001 |
| **Lifestyle factors** |  |  |  |  |  | |  |
| Adolescent obesity status (ref = normal weight) |  |  |  |  |  | |  |
| *Overweight* | 1.28 (1.15 , 1.44) | <0.001 | 1.26 (1.12 , 1.42) | <0.001 | 1.28 (1.13 , 1.45) | | <0.001 |
| *Obesity* | 1.29 (1.03 , 1.62) | 0.028 | 1.18 (0.92 , 1.52) | 0.185 | 1.25 (0.97 , 1.62) | | 0.084 |
| Sitting activities per day (ref = <1 hour) |  |  |  |  |  | |  |
| *1-2 hours* | 1.02 (0.95 , 1.10) | 0.604 | 0.92 (0.85 , 0.99) | 0.029 | 0.93 (0.86 , 1.01) | | 0.093 |
| *3-4 hours* | 1.42 (1.30 , 1.55) | <0.001 | 1.08 (0.98 , 1.19) | 0.108 | 1.00 (0.90 , 1.10) | | 0.960 |
| *>4 hours* | 1.71 (1.56 , 1.87) | <0.001 | 1.31 (1.19 , 1.45) | <0.001 | 1.18 (1.06 , 1.32) | | 0.002 |
| **Demographic factors** |  |  |  |  |  | |  |
| Age in years (ref = 11- 12 years) |  |  |  |  |  | |  |
| *13 year* | 0.83 (0.72 , 0.95) | 0.005 | 0.86 (0.75 , 0.99) | 0.032 | 0.88 (0.75 , 1.02) | | 0.089 |
| *14 year* | 0.82 (0.72 , 0.93) | 0.002 | 0.84 (0.74 , 0.96) | 0.012 | 0.94 (0.82 , 1.09) | | 0.435 |
| *15 year* | 0.92 (0.81 , 1.04) | 0.196 | 0.90 (0.79 , 1.03) | 0.139 | 1.04 (0.90 , 1.20) | | 0.626 |
| *16 year* | 1.11 (0.97 , 1.26) | 0.118 | 1.12 (0.97 , 1.28) | 0.116 | 1.14 (0.98 , 1.32) | | 0.082 |
| *17 year* | 0.84 (0.72 , 0.97) | 0.022 | 0.92 (0.78 , 1.07) | 0.282 | 0.90 (0.76 , 1.07) | | 0.234 |
| Female (ref = Male) | 1.56 (1.46 , 1.66) | <0.001 | 1.36 (1.27 , 1.45) | <0.001 | 1.36 (1.27 , 1.46) | | <0.001 |
| **Food security** (ref = Food security) |  |  |  |  |  | |  |
| Moderate food insecurity | 1.22 (1.14 , 1.30) | <0.001 | 1.22 (1.14 , 1.31) | <0.001 | 1.33 (1.23 , 1.43) | | <0.001 |
| Severe food insecurity | 1.34 (1.20 , 1.49) | <0.001 | 1.51 (1.35 , 1.69) | <0.001 | 1.80 (1.60 , 2.02) | | <0.001 |
| **Interaction of parental supports and level of anxiety** |  |  |  |  |  | |  |
| Parents understand problem and level of anxiety (ref = most of time or always × level of anxiety-never) |  |  |  |  |  | |  |
| *Never × level of anxiety (sometimes or rarely)* | 1.17 (0.97 , 1.41) | 0.109 | 1.03 (0.84 , 1.26) | 0.776 | 1.01 (0.80 , 1.27) | | 0.936 |
| *Never × level of anxiety (most of time or always)* | 1.06 (0.81 , 1.39) | 0.667 | 0.82 (0.62 , 1.09) | 0.173 | 0.81 (0.60 , 1.10) | | 0.178 |
| *Sometimes or rarely × level of anxiety (sometimes or rarely)* | 0.98 (0.83 , 1.17) | 0.839 | 0.95 (0.80 , 1.14) | 0.599 | 0.99 (0.80 , 1.21) | | 0.895 |
| *Sometimes or rarely × level of anxiety (most of time or always)* | 0.88 (0.69 , 1.13) | 0.324 | 0.80 (0.62 , 1.03) | 0.081 | 0.81 (0.61 , 1.07) | | 0.134 |
| Parents monitoring and level of anxiety (ref = most of time or always × level of anxiety-never) |  |  |  |  |  | |  |
| *Never × level of anxiety (sometimes or rarely)* | 0.96 (0.79 , 1.16) | 0.646 | 1.06 (0.86 , 1.30) | 0.588 | 1.08 (0.86 , 1.37) | | 0.512 |
| *Never × level of anxiety (most of time or always)* | 0.71 (0.55 , 0.93) | 0.014 | 0.96 (0.73 , 1.27) | 0.782 | 1.06 (0.78 , 1.45) | | 0.696 |
| *Sometimes or rarely × level of anxiety (sometimes or rarely)* | 0.92 (0.78 , 1.08) | 0.302 | 0.82 (0.69 , 0.97) | 0.018 | 0.83 (0.68 , 1.01) | | 0.058 |
| *Sometimes or rarely × level of anxiety (most of time or always)* | 0.77 (0.61 , 0.97) | 0.025 | 0.64 (0.50 , 0.82) | <0.001 | 0.70 (0.54 , 0.92) | | 0.010 |

**Appendix Table A1. Association of adolescent’s suicidal behaviours and associated factors across country income group (continued)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Characteristics | Upper-Middle Income Countries | | | | | |
| Suicidal ideation | | Suicidal plan | | Suicidal attempts | |
| AOR (95% CI) | p-value | AOR (95% CI) | p-value | AOR (95% CI) | p-value |
| **Violence and unintentional injured** |  |  |  |  |  |  |
| Physically attacked (ref = no) | 1.41 (1.33 , 1.49) | <0.001 | 1.43 (1.35 , 1.51) | <0.001 | 1.41 (1.32 , 1.51) | <0.001 |
| Physically fighting (ref = no) | 1.36 (1.29 , 1.44) | <0.001 | 1.45 (1.37 , 1.54) | <0.001 | 1.67 (1.57 , 1.78) | <0.001 |
| Seriously injured (ref = no) | 1.32 (1.25 , 1.39) | <0.001 | 1.40 (1.33 , 1.48) | <0.001 | 1.65 (1.55 , 1.76) | <0.001 |
| Victimisation (ref = no) | 1.58 (1.49 , 1.67) | <0.001 | 1.54 (1.46 , 1.63) | <0.001 | 1.89 (1.77 , 2.01) | <0.001 |
| **Psychosocial factors** |  |  |  |  |  |  |
| Loneliness (ref = never) |  |  |  |  |  |  |
| *Sometimes or rarely* | 1.42 (1.33 , 1.51) | <0.001 | 1.29 (1.22 , 1.38) | <0.001 | 1.25 (1.16 , 1.34) | <0.001 |
| *Most of time or always* | 3.51 (3.24 , 3.80) | <0.001 | 2.80 (2.58 , 3.04) | <0.001 | 2.52 (2.30 , 2.77) | <0.001 |
| Anxiety (ref = never) |  |  |  |  |  |  |
| *Sometimes or rarely* | 1.27 (1.14 , 1.41) | <0.001 | 1.14 (1.02 , 1.27) | 0.022 | 1.22 (1.08 , 1.38) | 0.002 |
| *Most of time or always* | 2.68 (2.29 , 3.14) | <0.001 | 2.25 (1.92 , 2.64) | <0.001 | 2.22 (1.86 , 2.66) | <0.001 |
| **Protective factors** |  |  |  |  |  |  |
| Parents check homework (ref = most of time or always) |  |  |  |  |  |  |
| *Never* | 1.07 (1.00 , 1.15) | 0.044 | 1.09 (1.02 , 1.17) | 0.013 | 0.99 (0.92 , 1.08) | 0.897 |
| *Sometimes or rarely* | 0.92 (0.87 , 0.98) | 0.012 | 0.95 (0.89 , 1.01) | 0.109 | 0.95 (0.89 , 1.02) | 0.192 |
| Parents understand problem (ref = most of time or always) |  |  |  |  |  |  |
| *Never* | 1.43 (1.25 , 1.64) | <0.001 | 1.31 (1.15 , 1.50) | <0.001 | 1.04 (0.88 , 1.21) | 0.658 |
| *Sometimes or rarely* | 1.20 (1.06 , 1.35) | 0.003 | 1.07 (0.95 , 1.21) | 0.271 | 1.02 (0.89 , 1.17) | 0.786 |
| Parent monitoring (ref = most of time or always) |  |  |  |  |  |  |
| *Never* | 1.45 (1.27 , 1.66) | <0.001 | 1.55 (1.35 , 1.77) | <0.001 | 1.44 (1.23 , 1.69) | <0.001 |
| *Sometimes or rarely* | 1.36 (1.21 , 1.53) | <0.001 | 1.36 (1.21 , 1.53) | <0.001 | 1.40 (1.22 , 1.60) | <0.001 |
| **Lifestyle factors** |  |  |  |  |  |  |
| Adolescent obesity status (ref = normal weight) |  |  |  |  |  |  |
| *Overweight* | 1.04 (0.96 , 1.13) | 0.329 | 1.02 (0.94 , 1.11) | 0.648 | 1.09 (1.00 , 1.20) | 0.058 |
| *Obesity* | 1.00 (0.88 , 1.13) | 0.979 | 0.98 (0.86 , 1.11) | 0.761 | 1.11 (0.96 , 1.28) | 0.165 |
| Sitting activities per day (ref = <1 hour) |  |  |  |  |  |  |
| *1-2 hours* | 1.01 (0.94 , 1.08) | 0.758 | 0.95 (0.89 , 1.02) | 0.168 | 1.02 (0.94 , 1.10) | 0.642 |
| *3-4 hours* | 1.19 (1.10 , 1.27) | <0.001 | 1.07 (0.99 , 1.15) | 0.087 | 1.11 (1.02 , 1.20) | 0.020 |
| *>4 hours* | 1.47 (1.36 , 1.57) | <0.001 | 1.41 (1.31 , 1.52) | <0.001 | 1.32 (1.22 , 1.44) | <0.001 |
| **Demographic factors** |  |  |  |  |  |  |
| Age in years (ref = 11- 12 years) |  |  |  |  |  |  |
| *13 year* | 1.29 (1.15 , 1.46) | <0.001 | 1.25 (1.11 , 1.41) | <0.001 | 1.57 (1.35 , 1.83) | <0.001 |
| *14 year* | 1.53 (1.36 , 1.72) | <0.001 | 1.50 (1.34 , 1.69) | <0.001 | 1.83 (1.58 , 2.12) | <0.001 |
| *15 year* | 1.65 (1.47 , 1.85) | <0.001 | 1.57 (1.40 , 1.77) | <0.001 | 1.75 (1.51 , 2.03) | <0.001 |
| *16 year* | 1.75 (1.56 , 1.97) | <0.001 | 1.67 (1.48 , 1.89) | <0.001 | 1.83 (1.57 , 2.13) | <0.001 |
| *17 year* | 1.10 (0.94 , 1.29) | 0.217 | 1.60 (1.38 , 1.87) | <0.001 | 1.74 (1.46 , 2.08) | <0.001 |
| Female (ref = Male) | 1.86 (1.76 , 1.96) | <0.001 | 1.71 (1.62 , 1.81) | <0.001 | 1.55 (1.45 , 1.65) | <0.001 |
| **Food security** (ref = Food security) |  |  |  |  |  |  |
| Moderate food insecurity | 1.05 (1.00 , 1.11) | 0.056 | 1.03 (0.98 , 1.09) | 0.248 | 0.97 (0.91 , 1.04) | 0.395 |
| Severe food insecurity | 1.25 (1.13 , 1.38) | <0.001 | 1.23 (1.11 , 1.37) | <0.001 | 1.50 (1.34 , 1.68) | <0.001 |
| **Interaction of parental supports and level of anxiety** |  |  |  |  |  |  |
| Parents understand problem and level of anxiety (ref = most of time or always × level of anxiety-never) |  |  |  |  |  |  |
| *Never × level of anxiety (sometimes or rarely)* | 1.2 (1.02 , 1.41) | 0.030 | 1.22 (1.04 , 1.44) | 0.016 | 1.34 (1.11 , 1.62) | 0.003 |
| *Never × level of anxiety (most of time or always)* | 1.19 (0.96 , 1.48) | 0.106 | 1.26 (1.02 , 1.56) | 0.036 | 1.54 (1.21 , 1.97) | 0.001 |
| *Sometimes or rarely × level of anxiety (sometimes or rarely)* | 1.08 (0.94 , 1.25) | 0.280 | 1.13 (0.98 , 1.31) | 0.087 | 1.08 (0.91 , 1.27) | 0.380 |
| *Sometimes or rarely × level of anxiety (most of time or always)* | 0.9 (0.74 , 1.10) | 0.308 | 1.04 (0.85 , 1.27) | 0.713 | 1.03 (0.83 , 1.29) | 0.787 |
| Parents monitoring and level of anxiety (ref = most of time or always × level of anxiety-never) |  |  |  |  |  |  |
| *Never × level of anxiety (sometimes or rarely)* | 1.01 (0.86 , 1.19) | 0.896 | 0.89 (0.76 , 1.05) | 0.176 | 1.06 (0.87 , 1.28) | 0.567 |
| *Never × level of anxiety (most of time or always)* | 0.91 (0.73 , 1.13) | 0.381 | 0.79 (0.64 , 0.99) | 0.037 | 0.91 (0.71 , 1.17) | 0.476 |
| *Sometimes or rarely × level of anxiety (sometimes or rarely)* | 0.88 (0.76 , 1.01) | 0.068 | 0.88 (0.76 , 1.01) | 0.075 | 0.85 (0.72 , 0.99) | 0.042 |
| *Sometimes or rarely × level of anxiety (most of time or always)* | 0.98 (0.81 , 1.19) | 0.866 | 0.88 (0.73 , 1.07) | 0.208 | 1.11 (0.89 , 1.38) | 0.360 |

**Appendix Table A1. Association of adolescent’s suicidal behaviours and associated factors across country income group (continued)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Characteristics | High-Income Countries | | | | | | |
| Suicidal ideation | | Suicidal plan | | Suicidal attempts | |
| AOR (95% CI) | p-value | AOR (95% CI) | p-value | AOR (95% CI) | p-value |
| **Violence and unintentional injured** |  |  |  |  |  |  |
| Physically attacked (ref = no) | 1.31 (1.17 , 1.46) | <0.001 | 1.15 (1.03 , 1.28) | 0.014 | 1.50 (1.32 , 1.70) | <0.001 |
| Physically fighting (ref = no) | 1.39 (1.25 , 1.54) | <0.001 | 1.42 (1.27 , 1.58) | <0.001 | 1.59 (1.40 , 1.79) | <0.001 |
| Seriously injured (ref = no) | 1.55 (1.41 , 1.70) | <0.001 | 1.58 (1.43 , 1.74) | <0.001 | 1.53 (1.36 , 1.72) | <0.001 |
| Victimisation (ref = no) | 1.66 (1.50 , 1.83) | <0.001 | 1.54 (1.39 , 1.71) | <0.001 | 1.73 (1.53 , 1.94) | <0.001 |
| **Psychosocial factors** |  |  |  |  |  |  |
| Loneliness (ref = never) |  |  |  |  |  |  |
| *Sometimes or rarely* | 1.34 (1.19 , 1.50) | <0.001 | 1.18 (1.05 , 1.33) | 0.005 | 0.96 (0.84 , 1.10) | 0.572 |
| *Most of time or always* | 2.77 (2.40 , 3.20) | <0.001 | 2.12 (1.83 , 2.45) | <0.001 | 1.86 (1.57 , 2.20) | <0.001 |
| Anxiety (ref = never) |  |  |  |  |  |  |
| *Sometimes or rarely* | 1.22 (0.97 , 1.53) | 0.095 | 1.04 (0.83 , 1.31) | 0.713 | 1.27 (0.98 , 1.64) | 0.072 |
| *Most of time or always* | 2.57 (1.91 , 3.47) | <0.001 | 2.82 (2.10 , 3.79) | <0.001 | 2.33 (1.68 , 3.25) | <0.001 |
| **Protective factors** |  |  |  |  |  |  |
| Parents check homework (ref = most of time or always) |  |  |  |  |  |  |
| *Never* | 1.10 (0.97 , 1.25) | 0.126 | 1.09 (0.96 , 1.24) | 0.190 | 0.96 (0.82 , 1.11) | 0.566 |
| *Sometimes or rarely* | 0.84 (0.75 , 0.94) | 0.002 | 0.88 (0.79 , 0.99) | 0.030 | 1.03 (0.90 , 1.18) | 0.693 |
| Parents understand problem (ref = most of time or always) |  |  |  |  |  |  |
| *Never* | 1.66 (1.31 , 2.11) | <0.001 | 1.28 (1.01 , 1.62) | 0.045 | 1.26 (0.92 , 1.73) | 0.157 |
| *Sometimes or rarely* | 1.22 (0.95 , 1.56) | 0.116 | 1.33 (1.05 , 1.69) | 0.018 | 1.16 (0.88 , 1.54) | 0.291 |
| Parent monitoring (ref = most of time or always) |  |  |  |  |  |  |
| *Never* | 1.76 (1.38 , 2.26) | <0.001 | 1.82 (1.42 , 2.33) | <0.001 | 1.49 (1.07 , 2.07) | 0.018 |
| *Sometimes or rarely* | 1.19 (0.96 , 1.48) | 0.120 | 1.25 (1.01 , 1.55) | 0.042 | 1.37 (1.04 , 1.80) | 0.024 |
| **Lifestyle factors** |  |  |  |  |  |  |
| Adolescent obesity status (ref = normal weight) |  |  |  |  |  |  |
| *Overweight* | 1.04 (0.92 , 1.18) | 0.512 | 0.94 (0.83 , 1.08) | 0.391 | 0.90 (0.77 , 1.05) | 0.178 |
| *Obesity* | 1.04 (0.90 , 1.20) | 0.603 | 0.97 (0.83 , 1.12) | 0.661 | 1.08 (0.91 , 1.27) | 0.383 |
| Sitting activities per day (ref = <1 hour) |  |  |  |  |  |  |
| *1-2 hours* | 1.46 (1.27 , 1.68) | <0.001 | 1.29 (1.12 , 1.48) | <0.001 | 0.92 (0.77 , 1.09) | 0.327 |
| *3-4 hours* | 1.67 (1.44 , 1.93) | <0.001 | 1.38 (1.19 , 1.59) | <0.001 | 0.87 (0.73 , 1.04) | 0.123 |
| *>4 hours* | 1.95 (1.70 , 2.24) | <0.001 | 1.65 (1.43 , 1.89) | <0.001 | 1.13 (0.96 , 1.32) | 0.139 |
| **Demographic factors** |  |  |  |  |  |  |
| Age in years (ref = 11- 12 years) |  |  |  |  |  |  |
| *13 year* | 0.87 (0.73 , 1.05) | 0.161 | 0.92 (0.76 , 1.11) | 0.384 | 0.87 (0.70 , 1.07) | 0.182 |
| *14 year* | 1.01 (0.84 , 1.21) | 0.930 | 1.03 (0.86 , 1.24) | 0.766 | 0.90 (0.74 , 1.11) | 0.332 |
| *15 year* | 1.01 (0.84 , 1.22) | 0.899 | 1.08 (0.89 , 1.30) | 0.437 | 0.99 (0.80 , 1.22) | 0.934 |
| *16 year* | 0.98 (0.80 , 1.20) | 0.831 | 1.00 (0.82 , 1.23) | 0.997 | 0.97 (0.77 , 1.22) | 0.784 |
| *17 year* | 0.79 (0.63 , 1.00) | 0.052 | 0.75 (0.59 , 0.95) | 0.019 | 0.96 (0.75 , 1.23) | 0.752 |
| Female (ref = Male) | 1.84 (1.67 , 2.03) | <0.001 | 1.59 (1.44 , 1.76) | <0.001 | 1.54 (1.37 , 1.74) | <0.001 |
| **Food security** (ref = Food security) |  |  |  |  |  |  |
| Moderate food insecurity | 1.01 (0.92 , 1.11) | 0.842 | 0.98 (0.89 , 1.09) | 0.719 | 0.97 (0.86 , 1.09) | 0.599 |
| Severe food insecurity | 1.23 (1.03 , 1.46) | 0.025 | 1.11 (0.92 , 1.33) | 0.273 | 1.35 (1.11 , 1.63) | 0.002 |
| **Interaction of parental supports and level of anxiety** |  |  |  |  |  |  |
| Parents understand problem and level of anxiety (ref = most of time or always × level of anxiety-never) |  |  |  |  |  |  |
| *Never × level of anxiety (sometimes or rarely)* | 1.04 (0.78 , 1.39) | 0.769 | 1.17 (0.87 , 1.56) | 0.304 | 1.41 (0.96 , 2.08) | 0.077 |
| *Never × level of anxiety (most of time or always)* | 1.21 (0.84 , 1.74) | 0.309 | 1.18 (0.82 , 1.71) | 0.364 | 1.45 (0.93 , 2.27) | 0.099 |
| *Sometimes or rarely × level of anxiety (sometimes or rarely)* | 1.15 (0.86 , 1.54) | 0.355 | 1.05 (0.79 , 1.40) | 0.741 | 1.22 (0.87 , 1.71) | 0.247 |
| *Sometimes or rarely × level of anxiety (most of time or always)* | 1.16 (0.80 , 1.68) | 0.427 | 0.80 (0.56 , 1.16) | 0.237 | 1.00 (0.66 , 1.51) | 0.985 |
| Parents monitoring and level of anxiety (ref = most of time or always × level of anxiety-never) |  |  |  |  |  |  |
| *Never × level of anxiety (sometimes or rarely)* | 0.92 (0.68 , 1.24) | 0.584 | 1.02 (0.75 , 1.39) | 0.882 | 0.86 (0.58 , 1.28) | 0.465 |
| *Never × level of anxiety (most of time or always)* | 0.79 (0.55 , 1.14) | 0.214 | 0.76 (0.52 , 1.09) | 0.135 | 1.04 (0.66 , 1.62) | 0.870 |
| *Sometimes or rarely × level of anxiety (sometimes or rarely)* | 1.01 (0.78 , 1.31) | 0.940 | 1.14 (0.88 , 1.47) | 0.325 | 0.85 (0.62 , 1.18) | 0.334 |
| *Sometimes or rarely × level of anxiety (most of time or always)* | 0.80 (0.58 , 1.11) | 0.175 | 0.71 (0.51 , 0.98) | 0.038 | 0.72 (0.48 , 1.06) | 0.092 |