Table S1 Odds ratios between socio-demographic, social and personal factors and poor health literacy levels among adolescents aged 14-17 ( $n=1202$ ) based on GeKoJu 2019 data: models with and without interactions between age and sex.


| Family Affluence |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| High | Ref. | Ref. | Ref. | Ref. | Ref. | Ref. | Ref. | Ref. |
| Low | 1.83* | 1.78* | 1.65 | 1.63 | 1.80* | 1.77* | 1.32 | 1.3 |
|  | (1.04-3.21) | (1.02-3.12) | (0.96-2.82) | (0.95-2.77) | (1.06-3.06) | (1.03-3.03) | (0.82-2.11) | (0.81-2.10) |
| Middle | 1.51 | 1.46 | 1.55* | 1.54 | 1.51** | $1.47^{*}$ | 1.37* | $1.36{ }^{*}$ |
|  | (0.99-2.29) | (0.96-2.23) | (1.01-2.40) | (1.00-2.38) | (1.12-2.03) | (1.08-2.01) | (1.04-1.80) | (1.02-1.82) |
| Migration background |  |  |  |  |  |  |  |  |
| No | Ref. | Ref. | Ref. | Ref. | Ref. | Ref. | Ref. | Ref. |
| One-sided | 0.67* | 0.67* | 0.64 |  | 1.3 | 1.32 | 1.11 | 1.11 |
|  | (0.46-0.98) | (0.45-0.98) | (0.37-1.10) | (0.37-1.11) | (0.88-1.93) | (0.89-1.95) | (0.73-1.68) | (0.73-1.69) |
| Two-sided | 1.63 | 1.62 | 0.84 | 0.85 | 1.32 | 1.35 | 1.3 | 1.29 |
|  | (1.00-2.66) | (0.99-2.66) | (0.51-1.37) | (0.53-1.39) | (0.69-2.54) | (0.71-2.56) | (0.88-1.92) | (0.87-1.90) |
| Social |  |  |  |  |  |  |  |  |
| Social support by family |  |  |  |  |  |  |  |  |
| High | Ref. | Ref. | Ref. | Ref. | Ref. | Ref. | Ref. | Ref. |
| low/moderate | 1.08 | 1.07 | 2.33*** | 2.31*** | 1.55* | 1.54* | 1.11 | 1.1 |
|  | (0.78-1.50) | (0.78-1.48) | (1.66-3.28) | (1.64-3.24) | (1.11-2.18) | (1.09-2.17) | (0.73-1.69) | (0.72-1.69) |
| Social support by friends |  |  |  |  |  |  |  |  |
| High | Ref. | Ref. |  |  |  |  | Ref. | Ref. |
| low/moderate | 1.58** | 1.61** | 1.98*** | 1.99*** | 1.71* | 1.73** | 1.54 | 1.54 |
|  | (1.18-2.11) | (1.20-2.14) | (1.43-2.74) | (1.43-2.75) | (1.14-2.57) | (1.15-2.59) | (0.97-2.43) | (0.98-2.43) |
| Personal |  |  |  |  |  |  |  |  |
| Self-efficacy | 0.95*** | 0.95*** | 0.97*** | 0.97*** | 0.96*** | 0.96*** | 0.99** | 0.99** |
|  | (0.94-0.96) | (0.94-0.96) | (0.95-0.98) | (0.95-0.98) | (0.94-0.97) | (0.94-0.97) | (0.98-1.00) | (0.98-1.00) |
| Interactions age \& sex |  |  |  |  |  |  |  |  |
| 14 years*male |  | Ref. |  | Ref. |  | Ref. |  | Ref. |
| 15 years*female |  | 0.81 |  | 0.69 |  | 0.82 |  | 0.77 |
|  |  | (0.44-1.50) |  | (0.29-1.62) |  | (0.31-2.13) |  | (0.34-1.75) |
| 16 years *female |  | 1.43 |  | 0.67 |  | 0.93 |  | 1.18 |
|  |  | (0.67-3.04) |  | (0.26-1.74) |  | (0.42-2.09) |  | (0.57-2.42) |
| 17 years *female |  | 0.74 |  | 0.48 |  | 0.42 |  | 1.21 |


|  | $(0.38-1.43)$ | $(0.18-1.31)$ | $(0.18-1.02)$ |
| :---: | :---: | :---: | :---: | :---: |
| Adjusted Wald test statistic, | $\mathrm{F}(3.47)=0.84$ | $\mathrm{~F}(3.47)=0.70$ | $\mathrm{~F}(3.47)=1.55$ |
| exact $p$-value | $p=0.48$ | $p=0.56$ | $p=0.21$ |
| ${ }^{*} p<0.05{ }^{* *} p<0.01{ }^{* * *} p<0.001$ |  | $p=0.2 .67)$ |  |

${ }^{*} p<0.05 ;{ }^{* *} p<0.01 ;$ *** $p<0.001$
Abbreviations: $\mathrm{CI}=$ confidence interval; $\mathrm{OR}=$ odds ratio; Ref. = reference category.

