

Appendix 1. Missing data across key study variables (n=7264).

Participants' characteristics	Frequency (%)
Geographic location	0
School type	0
Sex	0
Age group	29 (0.4)
Ethnicity	0
Marital status	0
Education level	0
Duration of teaching	13 (0.2)
Subject of teaching	0
Health awareness in daily life	0
Chronic health conditions	0
Medical insurance	96 (1.2)
Global health status	0
Cigarette smoking	0
Alcohol drinking	0
Physical inactivity	0
At least one health-compromising behaviour	0
Emergency service use	101 (1.3)
General practitioner service use	77 (1.0)
Hospitalisation	72 (0.9)
Patient-provider communication	97 (1.3)
At least one health service use	45 (0.6)
Healthcare cost	22 (0.3)
Personal health literacy	447 (5.8)
School health literacy environment	1.5)

Appendix 2. Associations between personal health literacy, school health literacy environment and each indicator of health behaviours, using imputed samples (n=7264).

	Model 1	Model 2	Model 3
<i>Association with cigarette smoking</i>			
Personal health literacy			
Excellent	Ref	Ref	Ref
Sufficient	0.84 (0.59, 1.19)	1.00 (0.66, 1.51)	1.14 (0.73, 1.78)
Problematic	0.60 (0.43, 0.85)	0.87 (0.57, 1.33)	1.03 (0.64, 1.66)
Inadequate	0.77 (0.51, 1.16)	0.74 (0.45, 1.22)	0.90 (0.52, 1.56)
School health literacy environment			
Supportive	Ref	Ref	Ref
Not supportive	0.81 (0.63, 1.03)	0.74 (0.55, 1.00)	0.75 (0.53, 1.05)
<i>Association with alcohol drinking</i>			
Personal health literacy			
Excellent	Ref	Ref	Ref
Sufficient	1.09 (0.89, 1.33)	1.39 (1.10, 1.75)	1.27 (1.00, 1.62)
Problematic	1.12 (0.93, 1.36)	1.61 (1.29, 2.01)	1.43 (1.12, 1.82)
Inadequate	1.32 (1.06, 1.65)	1.63 (1.24, 2.13)	1.42 (1.06, 1.89)
School health literacy environment			
Supportive	Ref	Ref	Ref
Not supportive	1.25 (1.10, 1.42)	1.38 (1.19, 1.59)	1.25 (1.06, 1.47)
<i>Association with physical inactivity</i>			
Personal health literacy			
Excellent	Ref	Ref	Ref
Sufficient	1.87 (1.60, 2.19)	1.88 (1.59, 2.22)	1.66 (1.40, 1.97)
Problematic	2.63 (2.26, 3.06)	2.85 (2.42, 3.36)	2.40 (2.01, 2.86)
Inadequate	2.98 (2.46, 3.60)	3.69 (2.99, 4.55)	3.00 (2.40, 3.75)
School health literacy environment			
Supportive	Ref	Ref	Ref
Not supportive	1.67 (1.51, 1.85)	1.83 (1.64, 2.05)	1.41 (1.25, 1.60)

Model 1: Unadjusted; Model 2: Adjusted for geographic location, school type, sex, age group, ethnicity, marital status, education level, duration of teaching, subject of teaching, health awareness in daily life, chronic health conditions, and medical insurance; Model 3: Additionally adjusted for school health literacy environment when examining the impact of personal health literacy or additionally adjusted for personal health literacy when examining the impact of school health literacy environment.

Appendix 3. Associations between personal health literacy, school health literacy environment and each indicator of health service use, using imputed samples (n=7264).

	Model 1	Model 2	Model 3
Association with emergency service use			
Personal health literacy			
Excellent	Ref	Ref	Ref
Sufficient	1.36 (1.08, 1.71)	1.30 (1.03, 1.64)	1.13 (0.89, 1.44)
Problematic	1.51 (1.21, 1.87)	1.32 (1.06, 1.65)	1.10 (0.87, 1.39)
Inadequate	2.51 (1.97, 3.19)	1.88 (1.47, 2.42)	1.52 (1.16, 1.99)
School health literacy environment			
Supportive	Ref	Ref	Ref
Not supportive	1.75 (1.51, 2.02)	1.52 (1.31, 1.77)	1.42 (1.21, 1.67)
Association with general practitioner service use			
Personal health literacy			
Excellent	Ref	Ref	Ref
Sufficient	2.20 (1.86, 2.60)	2.07 (1.74, 2.47)	1.69 (1.41, 2.03)
Problematic	3.35 (2.85, 3.94)	2.87 (2.42, 3.40)	2.17 (1.81, 2.60)
Inadequate	4.49 (3.58, 5.64)	3.51 (2.76, 4.46)	2.47 (1.91, 3.19)
School health literacy environment			
Supportive	Ref	Ref	Ref
Not supportive	2.45 (2.19, 2.76)	2.21 (1.96, 2.49)	1.75 (1.53, 2.00)
Association with hospitalisation			
Personal health literacy			
Excellent	Ref	Ref	Ref
Sufficient	1.37 (1.12, 1.67)	1.28 (1.04, 1.57)	1.14 (0.92, 1.41)
Problematic	1.64 (1.36, 1.98)	1.35 (1.10, 1.64)	1.16 (0.94, 1.42)
Inadequate	2.84 (2.28, 3.53)	2.02 (1.61, 2.54)	1.69 (1.33, 2.15)
School health literacy environment			
Supportive	Ref	Ref	Ref
Not supportive	1.72 (1.52, 1.95)	1.46 (1.28, 1.67)	1.34 (1.17, 1.54)
Association with patient-provider communication			
Personal health literacy			
Excellent	Ref	Ref	Ref
Sufficient	2.13 (1.81, 2.51)	2.01 (1.70, 2.38)	1.66 (1.39, 1.98)
Problematic	3.35 (2.86, 3.92)	2.91 (2.47, 3.43)	2.24 (1.88, 2.68)
Inadequate	4.26 (3.40, 5.34)	3.42 (2.69, 4.35)	2.47 (1.92, 3.19)
School health literacy environment			
Supportive	Ref	Ref	Ref
Not supportive	2.33 (2.09, 2.61)	2.13 (1.90, 2.39)	1.68 (1.48, 1.91)

Model 1: Unadjusted; Model 2: Adjusted for geographic location, school type, sex, age group, ethnicity, marital status, education level, duration of teaching, subject of teaching, health awareness in daily life, chronic health conditions, and medical insurance; Model 3: Additionally adjusted for school health literacy environment when examining the impact of personal health literacy or additionally adjusted for personal health literacy when examining the impact of school health literacy environment.