

Table S1. Model fit indices

Solution	Akaike Information Criterion	Bayesian Information Criterion
Two class	-1806.08	-1768.03
Three class	-1864.43	-1797.10
Four class	-1858.82	-1776.85
Five class	-1866.53	-1769.93
Six class	-1844.53	-1792.16

Table S2. Mean difference in the children’s pain score associated with physical activity latent classes (N=125)*

Classes	Pain score (unit): mean difference (95% confidence interval)	
	Model 1	Model 2
Inactive (ref)	0	0
Light	-2.62 (-13.15 to 7.92)	-2.22 (-12.81 to 8.37)
Active	2.03 (-16.90 to 20.95)	3.05 (-16.06 to 22.16)
P for trend	0.83	0.83

*Model 1 is adjusted for age and gender. Model 2 is additionally adjusted for time since diagnosis (months).

Table S3. Mean difference in the children’s fatigue score associated with physical activity latent classes (N=138)*

Classes	Fatigue score (unit): mean difference (95% confidence interval)	
	Model 1	Model 2
Inactive (ref)	0	0
Light	-1.60 (-3.13 to -0.06)	-1.52 (-3.06 to 0.01)
Active	1.52 (-1.28 to 4.33)	1.75 (-1.08 to 4.57)
P for trend	0.03	0.03

*Model 1 is adjusted for age and gender. Model 2 is additionally adjusted for time since diagnosis (months).

Table S4. Mean difference in the children’s anxiety score associated with physical activity latent classes (N=138)*

Classes	Anxiety score (unit): mean difference (95% confidence interval)	
	Model 1	Model 2
Inactive (ref)	0	0
Light	-0.80 (-7.31 to 5.72)	-0.70 (-7.26 to 5.85)
Active	13.51 (1.59 to 25.43)	13.79 (1.73 to 25.85)
P for trend	0.06	0.05

*Model 1 is adjusted for age and gender. Model 2 is additionally adjusted for time since diagnosis (months).

Table S5. Mean difference in the adolescents' depression score associated with physical activity latent classes (N=116)*

Classes	Depression score (unit): mean difference (95% confidence interval)	
	Model 1	Model 2
Inactive (ref)	0	0
Light	-0.92 (-2.30 to 0.46)	-0.88 (-2.27 to 0.51)
Active	1.67 (-1.22 to 4.56)	1.71 (-1.19 to 4.61)
P for trend	0.15	0.16

*Model 1 is adjusted for age and gender. Model 2 is additionally adjusted for time since diagnosis (months).

Table S6. Latent class prevalence and proportion of total time spent in each activity

	Active	Light	Inactive	Very inactive
Latent class prevalence	5.0%	29.8%	59.6%	5.6%
Proportion of total time spent in each activity				
Sedentary time	56.2%	70.2%	80.7%	90.2%
Light physical activity	33.3%	24.0%	16.4%	8.8%
Moderate physical activity	5.6%	3.8%	2.2%	0.7%
Vigorous physical activity	4.9%	2.0%	0.8%	0.3%

Table S7. Mean difference in the children’s physical function score associated with physical activity latent classes (N=159)*

Classes	Physical function score (unit): mean difference (95% confidence interval)	
	Model 1	Model 2
Very inactive (ref)	0	0
Inactive	4.28 (-12.04 to 20.60)	3.94 (-12.34 to 20.21)
Light	18.95 (1.91 to 35.99)	17.36 (0.23 to 34.48)
Active	21.55 (-1.74 to 44.84)	19.88 (-3.44 to 43.20)
P for trend	0.002	0.007

*Model 1 is adjusted for age and gender. Model 2 is additionally adjusted for time since diagnosis (months).

Table S8. Mean difference in the children's pain score associated with physical activity latent classes (N=144)*

Classes	Pain score (unit): mean difference (95% confidence interval)	
	Model 1	Model 2
Very inactive (ref)	0	0
Inactive	-6.73 (-27.73 to 14.27)	-6.65 (-27.69 to 14.38)
Light	-5.69 (-27.57 to 16.19)	-4.84 (-26.87 to 17.19)
Active	-2.12 (-32.05 to 27.82)	-1.21 (-31.29 to 28.87)
P for trend	0.91	0.90

*Model 1 is adjusted for age and gender. Model 2 is additionally adjusted for time since diagnosis (months).

Table S9. Mean difference in the children’s fatigue score associated with physical activity latent classes (N=160)*

Classes	Fatigue score (unit): mean difference (95% confidence interval)	
	Model 1	Model 2
Very inactive (ref)	0	0
Inactive	-1.37 (-4.52 to 1.78)	-1.33 (-4.48 to 1.82)
Light	-2.18 (-5.47 to 1.10)	-2.00 (-5.32 to 1.31)
Active	0.21 (-4.28 to 4.70)	0.39 (-4.12 to 4.91)
P for trend	0.34	0.40

*Model 1 is adjusted for age and gender. Model 2 is additionally adjusted for time since diagnosis (months).

Table S10. Mean difference in the children’s anxiety score associated with physical activity latent classes (N=160)*

Classes	Anxiety score (unit): mean difference (95% confidence interval)	
	Model 1	Model 2
Very inactive (ref)	0	0
Inactive	1.98 (-10.99 to 14.95)	2.12 (-10.87 to 15.12)
Light	3.39 (-10.16 to 16.94)	4.07 (-9.61 to 17.75)
Active	13.44 (-5.07 to 31.94)	14.13 (-4.49 to 32.75)
P for trend	0.44	0.39

*Model 1 is adjusted for age and gender. Model 2 is additionally adjusted for time since diagnosis (months).

Table S11. Mean difference in the adolescents' depression score associated with physical activity latent classes (N=137)*

Classes	Depression score (unit): mean difference (95% confidence interval)	
	Model 1	Model 2
Very inactive (ref)	0	0
Inactive	-0.80 (-3.47 to 1.88)	-0.77 (-3.46 to 1.92)
Light	-0.93 (-3.74 to 1.88)	-0.82 (-3.67 to 2.03)
Active	-0.45 (-5.03 to 4.13)	-0.44 (-5.03 to 4.16)
P for trend	0.93	0.95

*Model 1 is adjusted for age and gender. Model 2 is additionally adjusted for time since diagnosis (months).