

Supplementary Material to Gendered adolescent time use in Japan, Korea, Finland and UK
across three decades (this document is intended to be uploaded onto Figshare)

Table S1 – Definitions of activities

No.	Categories	List of harmonised activities (and raw activities)
1	Sleep and personal care	<ul style="list-style-type: none"> - Sleeps and naps (Sleeps and naps + imputed sleep) - Meals or snacks (Meals at school + meals or snacks in other places) - Self care (Wash, dress, care for self + personal or household care)
2	Educational activities	<ul style="list-style-type: none"> - Education (Regular schooling, education + Homework + Leisure course or other education or training)
3	TV/radio	<ul style="list-style-type: none"> - TV and Radio (Listen to music, ipod, CD, audiobook + Listen to radio + Watch TV, DVD, including web streamed content)
4	General leisure activities	<ul style="list-style-type: none"> - Reading - Computer and internet (Play computer games + Send e-mail, surf internet, programming, computing) - Leisure (Games (social or solitary) + other in-home social + General indoor leisure + Artistic or musical activity + Written correspondence + Knit, crafts or hobbies + receive or visit friends) - Away from home leisure as spectator (General out-of-home leisure + Attend sporting event + Cinema, theatre, opera, concert + Other public event, venue + Restaurant, café, bar, pub + Party, reception, social event, gambling + Imputed time away from home + Other out-of-doors recreation)
5	Sports and exercise	<ul style="list-style-type: none"> - Sport or exercise (General sport or exercise + Walking + Cycling)
6	Domestic work	<ul style="list-style-type: none"> - Clean (Cleaning + laundry, ironing, clothing repair + other domestic work) - Food prep (Food preparation + cooking) - Shopping and service (purchase goods + personal care services + other services) - Maintenance (home/vehicle improvement) - Elderly care (Adult care) - Pet care (Pet care besides walking dog + walk dog) - Routine childcare (physical or medical childcare + supervise, accompany, other child care) - Play care (teach child a skill, help with homework + read to, talk or play with child)
7	Other	<ul style="list-style-type: none"> - Voluntary work - Gardening - Pet care - Paid work - Religious activities - Commute/Travel

Table S2 – Select detailed activity changes across time

Society	Decade	TV/radio	General leisure				Other		
			Computer/ internet	Reading	Leisure	Out of home leisure	Voluntary work	Travel	Paid work
KR	1985-99	119.9	29.9	17.1	64.0	4.0	7.3	22.1	6.4
KR	2000-09	82.0	57.6	15.2	31.4	69.8	11.5	21.0	1.6
KR	2010-20	77.9	66.7	13.6	70.4	13.0	13.2	30.5	3.3
JP	1985-99	128.8	n/a	n/a	151.1	n/a	1.8	18.6	48.9
JP	2000-09	110.5	n/a	n/a	173.6	n/a	2.4	23.7	25.4
JP	2010-20	78.7	n/a	n/a	176.7	n/a	2.2	23.4	20.6
UK	1985-99	181.8	4.0	10.4	77.6	32.6	6.6	41.2	75.2
UK	2000-09	153.9	33.5	9.4	107.4	17.0	7.7	40.4	26.5
UK	2010-20	130.8	77.5	9.4	106.3	18.6	4.8	39.9	21.5
FI	1985-99	125.5	n/a	47.3	117.4	40.8	4.7	61.0	39.7
FI	2000-09	113.1	127.9	31.5	98.0	24.5	5.5	33.1	11.6
FI	2010-20	84.1	121.3	15.1	98.8	9.5	2.8	31.6	6.3

Note: ‘Other’ also includes time spent on gardening, pet care, commute, and religious activities but there is little variation in these activities across time.

Table S3 – p-values in testing the statistical significance between gender and decade interactions

	KR	JP	UK	FI
Sleep/personal care				
Equality of coefficients	0.905	0.030	0.005	0.544
girlx1985-1999= girlx2000-2009	0.714	0.009	0.007	0.951
girlx2000-2009= girlx2010-2020	0.680	0.256	0.142	0.381
girlx1985-1999= girlx2010-2020	0.917	0.030	0.597	0.286
Education				
Equality of coefficients	0.905	0.030	0.005	0.544
girlx1985-1999= girlx2000-2009	0.714	0.009	0.007	0.951
girlx2000-2009= girlx2010-2020	0.680	0.256	0.142	0.381
girlx1985-1999= girlx2010-2020	0.917	0.030	0.597	0.286
TV/radio				
Equality of coefficients	0.033	0.000	0.000	0.000
girlx1985-1999= girlx2000-2009	0.845	0.000	0.000	0.000
girlx2000-2009= girlx2010-2020	0.014	0.002	0.184	0.026
girlx1985-1999= girlx2010-2020	0.012	0.000	0.0109	0.014
Leisure				
Equality of coefficients	0.0127	0.024	0.000	0.000
girlx1985-1999= girlx2000-2009	0.00979	0.707	0.011	0.000
girlx2000-2009= girlx2010-2020	0.00407	0.007	0.701	0.487
girlx1985-1999= girlx2010-2020	0.00779	0.031	0.212	0.000
Sports/exercise				
Equality of coefficients	0.005	0.000	0.010	0.120
girlx1985-1999= girlx2000-2009	0.002	0.000	0.540	0.043
girlx2000-2009= girlx2010-2020	0.146	0.410	0.094	0.114
girlx1985-1999= girlx2010-2020	0.011	0.020	0.006	0.547
Domestic work				
Equality of coefficients	0.001	0.000	0.000	0.528
girlx1985-1999= girlx2000-2009	0.000	0.000	0.001	0.288
girlx2000-2009= girlx2010-2020	0.358	0.000	0.638	0.622
girlx1985-1999= girlx2010-2020	0.001	0.000	0.071	0.592