Supplementary material

"Is single parenthood increasingly an experience of less educated mothers? A European comparison over five decades"

Table S1: Mean number of children by education and single motherhood

	Austria		France		Ireland		Italy		Norway		Poland		UK	
	Mothers in couples	Single mothers	Mothers in couples	Single mothers	Mothers in couples	Single mothers	Mothers in couples	Single mothers	Mothers in couples	Single mothers	Mothers in couples	Single mothers	Mothers in couples	Single mothers
Low	1.9	1.6	2.1	1.7	2.5	2.1	1.6	1.4	1.8	1.6	1.9	1.6	1.9	1.7
Medium	1.7	1.4	1.8	1.5	2.2	1.8	1.6	1.4	1.8	1.5	1.8	1.5	1.8	1.6
High	1.7	1.4	1.8	1.5	2.1	1.6	1.6	1.4	1.8	1.5	1.6	1.3	1.9	1.6
Total	1.7	1.4	2.0	1.6	2.3	1.9	1.6	1.4	1.8	1.5	1.8	1.5	1.9	1.7

Table S2: Predictors of (0) mothers in couples vs. (1) single mothers, logistic regression models (odds ratios) excluding number of children (M2)

	Austria		France		Ireland		Italy		Norway	
	M1	M2	M1	M2	M1	M2	M1	M2	M1	M2
Year	1.017	1.018	1.040	1.040	1.048	1.051	1.026	1.028	1.026	1.027
	[1.015,1.018]	[1.017,1.019]	[1.040,1.040]	[1.040,1.040]	[1.048,1.049]	[1.050,1.051]	[1.026,1.027]	[1.027,1.028]	[1.024,1.027]	[1.025,1.029]
Education (ref. Low)										
Medium	1.018	1.100	0.785	0.812	0.650	0.672	1.144	1.173	0.773	0.789
	[0.985,1.051]	[1.065,1.135]	[0.777,0.794]	[0.803,0.821]	[0.638,0.662]	[0.659,0.685]	[1.132,1.156]	[1.161,1.185]	[0.738,0.809]	[0.755,0.826]
Higher	1.124	1.252	0.568	0.590	0.472	0.501	1.336	1.377	0.631	0.650
	[1.062,1.189]	[1.184,1.323]	[0.559,0.576]	[0.582,0.599]	[0.460,0.485]	[0.488,0.514]	[1.315,1.358]	[1.355,1.399]	[0.599,0.665]	[0.617,0.685]
Age of the youngest child (ref. 0–4)										
5–9	1.760	1.826	2.251	2.287	2.857	2.907	1.858	1.868	3.146	3.184
	[1.683,1.841]	[1.746,1.909]	[2.218,2.286]	[2.252,2.322]	[2.789,2.927]	[2.837,2.978]	[1.830,1.887]	[1.840,1.897]	[2.991,3.310]	[3.029,3.348]
10–14	2.231	2.628	2.758	3.019	4.258	4.595	2.400	2.615	3.764	4.794
	[2.114,2.354]	[2.494,2.770]	[2.707,2.809]	[2.964,3.074]	[4.134,4.385]	[4.464,4.731]	[2.357,2.444]	[2.569,2.663]	[3.533, 4.010]	[4.511,5.096]
15–19	1.929	3.048	2.490	3.369	4.450	5.883	2.395	3.189	3.727	5.708
	[1.812,2.054]	[2.870,3.237]	[2.436,2.545]	[3.300,3.440]	[4.289,4.617]	[5.682,6.091]	[2.347,2.443]	[3.128,3.251]	[3.416,4.064]	[5.248,6.208]
Number of children (ref. 1 child)										
2	0.435	-	0.572	-	0.634	-	0.548	-	0.547	-
	[0.421,0.450]		[0.566,0.579]		[0.621,0.646]		[0.542,0.554]		[0.526,0.569]	
3+	0.356	-	0.585	-	0.602	-	0.545	-	0.441	-
	[0.338,0.376]		[0.576,0.593]		[0.588,0.616]		[0.535,0.555]		[0.414,0.468]	
Mother's age	0.964	0.955	0.981	0.975	0.923	0.918	0.997	0.991	0.930	0.922
	[0.962,0.967]	[0.953,0.958]	[0.980,0.982]	[0.974,0.976]	[0.922,0.924]	[0.916,0.919]	[0.996,0.998]	[0.990,0.992]	[0.927,0.933]	[0.919,0.925]

Mother's age squared	1.002	1.003	1.001	1.002	1.003	1.003	1.001	1.001	1.003	1.004
	[1.002,1.003]	[1.003,1.004]	[1.001,1.001]	[1.002,1.002]	[1.003,1.003]	[1.003,1.003]	[1.001,1.001]	[1.001,1.002]	[1.003,1.003]	[1.004,1.004]
N	277,620	277,620	7,564,803	7,564,803	501,976	501,976	4,978,235	4,978,235	116,524	116,524
Pseudo R2	0.048	0.025	0.083	0.074	0.112	0.104	0.046	0.037	0.072	0.059

Notes: Year is centred around first survey year in a country. Mother's age is centred around country mean.

	Poland		UK	
	M1	M2	M1	M2
Year	1.028	1.028	1.060	1.061
	[1.027,1.029]	[1.027,1.029]	[1.060,1.061]	[1.060,1.061]
Education (ref. Low)				
Medium	0.712	0.745	0.773	0.781
	[0.694,0.731]	[0.726,0.764]	[0.760,0.786]	[0.768,0.794]
Higher	0.555	0.625	0.525	0.533
	[0.536,0.574]	[0.605,0.646]	[0.514,0.536]	[0.522,0.544]
Age of the youngest child (ref. 0–4)				
5–9	1.535	1.602	2.647	2.605
	[1.492,1.580]	[1.557,1.648]	[2.593,2.703]	[2.553,2.659]
10–14	1.894	2.108	3.724	3.724
	[1.829,1.960]	[2.039,2.180]	[3.634,3.817]	[3.635,3.814]
15–19	1.797	2.375	3.784	4.416
	[1.726,1.872]	[2.287,2.466]	[3.673,3.899]	[4.292,4.544]
Number of children (ref. 1 child)				
2	0.594	-	0.611	-
	[0.581,0.607]		[0.601,0.621]	
3+	0.624	-	0.775	-
	[0.606,0.643]		[0.760,0.791]	
Mother's age	0.976	0.970	0.932	0.930
	[0.974,0.977]	[0.969,0.972]	[0.931,0.933]	[0.929,0.931]
Mother's age squared	1.002	1.003	1.003	1.003
	[1.002,1.002]	[1.002,1.003]	[1.002,1.003]	[1.003,1.003]
N	1,104,823	1,104,823	567,628	567,628
Pseudo R2	0.030	0.022	0.095	0.088

Supplementary material for 'Is single parenthood increasingly an experience of less-educated mothers? A European comparison over five decades'

Table S3: Mothers' mean age by age of the youngest child, education and single parenthood

(A) All

Age of the youngest child	Austria Mothers in couples	Single mothers	France Mothers in couples	Single mothers	Ireland Mothers in couples	Single mothers	Italy Mothers in couples	Single mothers	Norway Mothers in couples	Single mothers	Poland Mothers in couples	Single mothers	UK Mothers in couples	Single mothers
0–4	30.9	28.9	30.1	29.6	32.9	29.0	31.8	33.4	31.6	28.6	29.9	28.6	30.0	26.7
5–9	36.3	35.2	36.6	35.9	39.8	35.5	37.8	38.2	37.2	34.8	35.6	34.6	36.2	33.6
10–14	41.1	40.7	42.0	42.0	45.4	42.7	42.7	42.9	42.5	41.1	40.9	40.7	41.1	39.9
15–19	45.7	45.7	47.0	47.5	50.5	49.4	47.4	48.1	45.6	44.5	45.6	45.8	46.1	45.9

(B) Low education

Age of the youngest child	Austria Mothers in couples	Single mothers	France Mothers in couples	Single mothers	Ireland Mothers in couples	Single mothers	Italy Mothers in couples	Single mothers	Norway Mothers in couples	Single mothers	Poland Mothers in couples	Single mothers	UK Mothers in couples	Single mothers
0–4	29.7	26.9	30.0	29.2	32.4	29.0	30.8	31.8	30.3	26.4	29.7	28.0	29.3	26.3
5–9	35.5	34.1	36.7	36.2	39.7	35.8	37.2	37.4	36.5	34.1	36.6	35.5	35.8	33.3
10–14	41.1	40.9	42.3	42.7	45.5	43.5	42.5	42.7	42.5	41.6	42.8	42.8	40.8	39.8
15–19	46.0	46.4	47.4	48.4	50.8	50.1	47.4	48.4	45.2	44.5	47.5	48.5	45.8	45.6

(C) Medium education

Age of the youngest child	Austria Mothers in couples	Single mothers	France Mothers in couples	Single mothers	Ireland Mothers in couples	Single mothers	Italy Mothers in couples	Single mothers	Norway Mothers in couples	Single mothers	Poland Mothers in couples	Single mothers	UK Mothers in couples	Single mothers
0–4	30.7	29.0	29.4	29.2	32.8	28.4	32.5	33.9	30.6	28.0	29.7	28.5	29.8	26.9
5–9	36.1	35.0	35.6	34.7	39.5	34.7	38.3	38.5	36.3	33.9	35.2	34.2	35.9	33.3
10–14	40.8	40.1	40.7	40.3	45.0	41.7	42.8	42.5	41.7	40.1	40.2	40.0	40.8	39.0
15–19	45.2	44.9	45.4	45.2	50.0	48.3	47.1	46.8	44.9	43.7	44.7	44.7	45.3	43.9

(D) High education

Age of the youngest child	Austria Mothers in couples	Single mothers	France Mothers in couples	Single mothers	Ireland Mothers in couples	Single mothers	Italy Mothers in couples	Single mothers	Norway Mothers in couples	Single mothers	Poland Mothers in couples	Single mothers	UK Mothers in couples	Single mothers
0–4	34.0	34.5	31.8	32.5	34.8	32.0	35.6	37.1	33.3	33.0	31.8	30.9	32.6	31.8
5–9	39.5	38.4	38.1	37.4	40.9	36.8	41.2	41.4	38.8	37.3	36.7	35.9	38.2	36.9
10–14	43.8	43.3	42.9	42.3	45.8	42.5	45.4	45.0	43.7	42.3	41.8	41.2	42.7	41.5
15–19	48.2	47.6	47.3	46.8	50.5	48.3	49.3	49.0	46.9	45.6	46.0	45.7	46.9	45.9

Table S4: Predictors of (0) mothers in couples vs. (1) single mothers, logistic regression models (odds ratios) <u>*excluding mother's age (and mother's age squared) (M2) and age of the youngest child (M3), respectively*</u>

	Austria			France			Ireland			Italy		
	M1	M2	M3	M1	M2	M3	M1	M2	M3	M1	M2	M3
Year	1.017	1.012	1.014	1.040	1.039	1.038	1.048	1.044	1.051	1.026	1.026	1.024
	[1.015,1.018]	[1.011,1.013]	[1.013,1.016]	[1.040,1.040]	[1.038,1.039]	[1.038,1.039]	[1.048,1.049]	[1.043,1.045]	[1.050,1.052]	[1.026,1.027]	[1.025,.026]	[1.023,1.024]
Education (ref. Low)												
Medium	1.018	0.975	0.984	0.785	0.776	0.773	0.650	0.629	0.592	1.144	1.135	1.075
	[0.985,1.051]	[0.944,1.007]	[0.952,1.016]	[0.777,0.794]	[0.767,0.785]	[0.764,0.781]	[0.638,0.662]	[0.618,0.641]	[0.581,0.603]	[1.132,1.156]	[1.123,1.146]	[1.064,1.086]
Higher	1.124	0.950	0.982	0.568	0.537	0.507	0.472	0.367	0.364	1.336	1.322	1.139
	[1.062,1.189]	[0.899,1.004]	[0.929,1.037]	[0.559,0.576]	[0.529,0.544]	[0.500,0.515]	[0.460,0.485]	[0.358,0.376]	[0.355,0.373]	[1.315,1.358]	[1.301,1.343]	[1.121,1.157]
Age of the youngest child (ref. 0–4)												
5–9	1.760	1.248	-	2.251	1.855	-	2.857	1.471	-	1.858	1.774	-
	[1.683,1.841]	[1.200,1.297]		[2.218,2.286]	[1.831,1.878]		[2.789,2.927]	[1.441,1.502]		[1.830,1.887]	[1.751,1.797]	
10–14	2.231	1.287	-	2.758	2.076	-	4.258	1.333	-	2.400	2.279	-
	[2.114,2.354]	[1.238,1.338]		[2.707,2.809]	[2.049,2.103]		[4.134,4.385]	[1.304,1.363]		[2.357,2.444]	[2.249,2.309]	
15–19	1.929	1.022	-	2.490	1.820	-	4.450	0.968	-	2.395	2.321	-
	[1.812,2.054]	[0.981,1.064]		[2.436,2.545]	[1.795,1.845]		[4.289,4.617]	[0.945,0.991]		[2.347,2.443]	[2.292,2.350]	
Number of children (ref. 1 child)												
2	0.435	0.401	0.430	0.572	0.541	0.565	0.634	0.521	0.596	0.548	0.536	0.518
	[0.421,0.450]	[0.388,0.414]	[0.417,0.444]	[0.566,0.579]	[0.535,0.547]	[0.559,0.571]	[0.621,0.646]	[0.511,0.531]	[0.585,0.608]	[0.542,0.554]	[0.530,0.541]	[0.513,0.523]
3+	0.356	0.286	0.315	0.585	0.522	0.502	0.602	0.381	0.486	0.545	0.526	0.454
	[0.338,0.376]	[0.272,0.301]	[0.300,0.332]	[0.576,0.593]	[0.515,0.529]	[0.495,0.509]	[0.588,0.616]	[0.373,0.389]	[0.476,0.497]	[0.535,0.555]	[0.517,0.535]	[0.446,0.462]
Mother's age	0.964	-	0.987	0.981	-	1.015	0.923	-	0.968	0.997	-	1.030
	[0.962,0.967]		[0.986,0.989]	[0.980,0.982]		[1.014,1.015]	[0.922,0.924]		[0.967,0.969]	[0.996,0.998]		[1.029,1.030]
Mother's age squared	1.002	-	1.001	1.001	-	1.000	1.003	-	1.002	1.001	-	1.000
	[1.002,1.003]		[1.001,1.002]	[1.001,1.001]		[1.000,1.000]	[1.003,1.003]		[1.002,1.002]	[1.001,1.001]		[1.000,1.000]
N	*277,620*	*277,620*	*277,620*	*7,564,803*	*7,564,803*	*7,564,803*	*501,976*	*501,976*	*501,976*	*4,978,235*	*4,978,235*	*4,978,235*
Pseudo R2	*0.048*	*0.039*	*0.041*	*0.083*	*0.080*	*0.070*	*0.112*	*0.067*	*0.083*	*0.046*	*0.046*	*0.039*

Notes: Year is centred around first survey year in a country. Mother's age is centred around country mean.

	Norway			Poland			UK		
	M1	M2	M3	M1	M2	M3	M1	M2	M3
Year	1.026	1.021	1.024	1.028	1.027	1.027	1.060	1.055	1.057
	[1.024,1.027]	[1.019,.023]	[1.022,1.026]	[1.027,1.029]	[1.026,1.028]	[1.026,1.028]	[1.060,1.061]	[1.054,1.055]	[1.056,1.058]
Education (ref. Low)									
Medium	0.773	0.740	0.727	0.712	0.687	0.706	0.773	0.749	0.728
	[0.738,0.809]	[0.707,0.773]	[0.695,0.760]	[0.694,0.731]	[0.669,0.705]	[0.688,0.725]	[0.760,0.786]	[0.737,0.762]	[0.716,0.740]
Higher	0.631	0.500	0.504	0.555	0.494	0.508	0.525	0.413	0.438
	[0.599,0.665]	[0.475,0.526]	[0.479,0.531]	[0.536,0.574]	[0.478,0.511]	[0.491,0.525]	[0.514,0.536]	[0.405,0.421]	[0.429,0.447]

Age of the youngest child (ref. 0–4)									
5–9	3.146	1.773	-	1.535	1.194	-	2.647	1.452	-
	[2.991,3.310]	[1.699,1.850]		[1.492,1.580]	[1.165,1.225]		[2.593,2.703]	[1.427,1.478]	
10–14	3.764	1.380	-	1.894	1.258	-	3.724	1.413	-
	[3.533,4.010]	[1.320,1.442]		[1.829,1.960]	[1.227,1.290]		[3.634,3.817]	[1.387,1.439]	
15–19	3.727	1.198	-	1.797	1.126	-	3.784	1.110	-
	[3.416,4.064]	[1.119,1.282]		[1.726,1.872]	[1.097,1.156]		[3.673,3.899]	[1.087,1.132]	
Number of children (ref. 1 child)									
2	0.547	0.472	0.515	0.594	0.544	0.570	0.611	0.540	0.593
	[0.526,0.569]	[0.454,0.490]	[0.496,0.535]	[0.581,0.607]	[0.532,0.555]	[0.558,0.582]	[0.601,0.621]	[0.531,0.548]	[0.584,0.602]
3+	0.441	0.320	0.348	0.624	0.516	0.542	0.775	0.578	0.635
	[0.414,0.468]	[0.301,0.339]	[0.328,0.368]	[0.606,0.643]	[0.501,0.531]	[0.527,0.557]	[0.760,0.791]	[0.566,0.589]	[0.623,0.647]
Mother's age	0.930	-	0.978	0.976	-	0.995	0.932	-	0.976
	[0.927,0.933]		[0.976,0.980]	[0.974,0.977]		[0.994,0.996]	[0.931,0.933]		[0.976,0.977]
Mother's age squared	1.003	-	1.001	1.002	-	1.001	1.003	-	1.002
	[1.003,1.003]		[1.001,1.002]	[1.002,1.002]		[1.001,1.001]	[1.002,1.003]		[1.002,1.002]
N	*116,524*	*116,524*	*116,524*	*1,104,823*	*1,104,823*	*1,104,823*	*567,628*	*567,628*	*567,628*
Pseudo R2	*0.072*	*0.048*	*0.046*	*0.030*	*0.024*	*0.025*	*0.095*	*0.065*	*0.071*