

Adult roles and the gender gap in political knowledge: A comparative study

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Online Appendix

Table A1. List of knowledge items: Finland

Order	Correct (%)	Topic	Format	Content
c10_1*	93.9	Name of Prime Minister	Open	Classic
c26*	93.5	Meaning of TUPO ¹	Closed	Economy
c13*	86.1	Maximum years between parliamentary elections	Closed	Democracy
c10_2*	84.5	Party of Prime Minister	Open	Classic
c28*	84.1	Length of term of President	Closed	Democracy
c8*	79.8	Maximum years between municipal elections	Closed	Democracy
c5*	79.5	Who is elected in municipal elections	Closed	Democracy
c32	76.8	Income tax	Closed	Economy
c31	71.0	Inflation	Closed	Economy
c16*	69.8	How many members in parliament	Open	Democracy
c17_2*	69.4	Party of Speaker of parliament	Open	Classic
c19*	68.8	Meaning of 'red earth/clay' ²	Closed	Classic
c25*	65.9	Which parties in tripartite negotiations	Closed	Classic
c17_1*	65.6	Name of Speaker of parliament	Open	Classic
c22	65.2	Main principle of division of duties between state and municipalities	Closed	Democracy
c9	62.4	Who is elected in parliamentary elections	Closed	Democracy
c1	55.1	Constitution: where are powers of the state vested	Closed	Democracy
c15*	48.1	Electoral system: how are votes transformed into seats	Closed	Democracy
c2a	44.6	Words associated with proportional representation I (multi-party system)	Closed	Democracy
c20	40.2	Task of Prime Minister	Closed	Democracy
c14*	40.1	Year of next parliamentary elections	Open	Democracy
c3	38.9	Meaning of electoral division	Closed	Democracy
c24	38.5	Principle of parliamentarism (meaning)	Closed	Democracy
c12*	38.0	Parties currently in government	Closed	Classic
c2c	37.5	Words associated with proportional representation II (several candidates in each constituency)	Closed	Democracy
c27*	35.4	Who has competence in foreign policy	Closed	Policies
c11	26.5	Task of Parliament	Closed	Democracy
c30	21.3	How much is annual government spending	Closed	Economy
c18	13.8	Seats of parties in parliament	Closed	Classic

* Items that form part of the Mokken scale used in the main analyses

¹TUPO refers to comprehensive national income policy agreements that were being discussed at the time of the interview (2008). ² 'Red earth/clay' was a term used for the cooperation of two specific parties.

Table A2. List of knowledge items: Spain

Order	Correct (%)	Topic	Format	Content
Q13*	93.9	Logo PSOE	Open	Classic
Q2*	93.5	Words associated with democracy: vote	Closed	Democracy
Q1*	85.3	Words associated with democracy: censorship	Closed	Democracy
Q7	84.4	Maximum number of years between elections	Closed	Democracy
Q3*	84.0	Words associated with democracy: demonstration	Closed	Democracy
Q27	83.9	Who collects waste	Closed	Policies
Q4*	82.4	Words associated with democracy: violation of rights	Closed	Democracy
Q14*	82.0	Logo PP	Open	Classic
Q29	79.5	Where are health service cards obtained	Closed	Policies
Q16*	79.1	Party of Cospedal	Closed	Classic
Q26	78.5	Management of health centre	Closed	Policies
Q28	71.7	Provision of ID card	Closed	Policies
Q25	70.2	Management of School/High school	Closed	Policies
Q5	69.4	Function of Spanish Parliament	Closed	Democracy
Q12*	62.9	Office of Soraya Santamaria	Open	Classic
Q22	60.3	What does the CPI measure	Closed	Economy
Q11	59.4	Minister for Justice	Open/closed	Classic
Q20	59.1	Percentage of unemployed	Open	Economy
Q30	57.9	At what age does free public education start	Open	Policies
Q9*	57.3	Content: Spanish Constitution	Closed	Democracy
Q6	56.8	Who has the right to vote	Closed	Democracy
Q18*	54.1	Party of Rosa Díez	Closed	Classic
Q23*	51.6	Characteristics of a market economy	Closed	Economy
Q21	48.2	Euribor value	Closed	Economy
Q10	46.5	Why should the government inform about activities	Closed	Democracy
Q15*	46.4	Logo UGT	Open	Classic
Q17*	45.9	Party of Cayo Lara	Closed	Classic
Q8	42.1	Year of Spanish Constitution	Open/closed	Democracy
Q24	38.0	Number of Autonomous Communities	Open/closed	Democracy
Q19*	21.5	Party of Eduardo Madina	Closed	Classic

* Items that form part of the Mokken scale used in the main analyses

Table A.3 H_i and Z coefficients of political knowledge scale and each item in Finland

Item	Score	H_i	Z
c10_1f	0.94	0.54	26.71
c26f	0.94	0.47	23.91
c13f	0.86	0.38	26.99
c10_2f	0.85	0.49	36.31
c28f	0.84	0.33	24.59
c8f	0.80	0.39	31.07
c5f	0.79	0.36	29.06
c16f	0.70	0.41	35.06
c17_2f	0.69	0.47	40.89
c19f	0.69	0.40	34.80
c25f	0.66	0.39	32.93
c17_1f	0.66	0.45	38.34
c12f	0.50	0.40	30.25
c15f	0.48	0.35	25.60
c14f	0.40	0.36	23.63
c27f	0.35	0.43	26.45
Scale		0.41	85.47

Exact wording of the questions:

C5f Political decisions are also made in municipalities in Finland. Which political decision-maker is elected by the residents of a municipality in municipal elections?

- In the judiciary
- In the people (CORRECT)
- In the President
- In the Government
- Can't say

C8f How often are municipal elections held in Finland?

- Every other year
- Every third year
- Every fourth year (CORRECT)
- Every fifth year
- Can't say

C10_1f Who is currently the Prime Minister of Finland? OPEN-ENDED

C10_2f Which party does the current Prime Minister of Finland represent? OPEN-ENDED

C12f Out of the following, please select the parties that currently form the Government (MULTIPLE CHOICE)

- KOK (CORRECT)

- SDP
- KESK (CORRECT)
- True Finns
- RKP (CORRECT)
- KD
- VIHR (CORRECT)
- VAS
- Can't say

C13f How often, at minimum, must parliamentary elections be held in Finland?

- Every three years
- Every four years (CORRECT)
- Every five years
- Every six years
- Can't say

C14f When will the parliamentary elections be held next? OPEN-ENDED

C15f The electoral system converts votes given in the elections into seats. In Finland, voters give their vote to the candidate of their choosing. What sort of influence does this vote given to a candidate have?

- The number of votes received by each candidate is counted and candidate with the most personal votes is elected
- The number of votes received by each candidate is counted and seats are allocated in order based on the personal votes
- Comparative index is calculated for each candidate based on votes received by party. Seats allocated based on the index (CORRECT)
- Each party receives seats based on the proportion of votes. Seats are filled in order of candidates on a list
- Can't say

C16f How many members are there in the Parliament? OPEN-ENDED

C17_1f Who currently acts as the Speaker of the Parliament? OPEN-ENDED

C17_2f Which party does the Speaker of the Parliament represent? OPEN-ENDED

C19f The cooperation of which two parties has been termed 'red earth/clay'?

- The social Democratic Party and National Coalition Party
- The social Democratic Party and the Centre Party (CORRECT)
- The Left Alliance and the Centre Party
- The Left Alliance and the National Coalition Party
- Can't say

C25f Since the 1960s, so-called tripartite negotiations have taken place in Finland. Who are the main parties in these negotiations?

- The President, the Prime Minister and the Minister of Finance

- The State, employer's organisations and trade unions/professional organizations (CORRECT)
- Municipal managers, town managers and executive directors of regional councils
- Finland, Sweden and Norway
- Can't say

C26f What is meant by the abbreviation TUPO?

- Plans that aim for the abolition of income tax
- An energy policy programme with an emphasis on wind power
- Comprehensive incomes policy settlement/ national income policy agreement (CORRECT)
- Income tax rate redress procedure
- Can't say

C27f The Constitution of Finland regulates the conduct of Finnish foreign policy. Which of the following alternatives completes the definition given in the Constitution: 'The foreign policy of Finland is directed by...'

- The President of the Republic, in co-operation with the Minister of Foreign Affairs
- The President of the Republic, in co-operation with the Government (CORRECT)
- The Parliament, in co-operation with the Minister for Foreign Affairs
- The Minister of Foreign Affairs
- Can't say

C28f How long is the term of the President of the Republic?

- Four years
- Five years
- Six years (CORRECT)
- Eight years
- Can't say

Table A.4 H_i and Z coefficients of political knowledge scale and each item in Spain

Item	Score	H_i	Z
correct13	0.94	0.47	35.84
correct2	0.94	0.45	34.62
correct1	0.86	0.37	40.19
correct3	0.85	0.33	36.59
correct14	0.83	0.38	43.27
correct4	0.83	0.31	35.87
correct16	0.79	0.44	50.88
correct12	0.62	0.44	55.61
correct9	0.59	0.33	41.66
correct18	0.54	0.48	60.91
correct23	0.53	0.34	42.23
correct15	0.48	0.34	40.93
correct17	0.45	0.46	53.46
correct19	0.21	0.52	37.21
Scale		0.39799	115.56

Exact wording of the questions:

Correct 1: Now I am going to ask you some questions about the way democracy works: Please tell me, which of the following words define a democratic system and which define a dictatorship? Censorship

Correct 2: Now I am going to ask you some questions about the way democracy works: Please tell me, which of the following words define a democratic system and which define a dictatorship? Vote

Correct 3: Now I am going to ask you some questions about the way democracy works: Please tell me, which of the following words define a democratic system and which define a dictatorship? Demonstrations

Correct 4: Now I am going to ask you some questions about the way democracy works: Please tell me, which of the following words define a democratic system and which define a dictatorship? Violation of human rights

Correct 9: Which of the following statements are included in the Spanish Constitution?

- Statements about current relations of Spain with other countries..... 1
- Statements from the current Prime Minister 2
- Statements of the principles that govern the political system and the laws 3
- (CORRECT)
- Statements of political parties to their sympathizers..... 4
- D.K..... 8
- N. A..... 9

Correct 12 Do you remember the office hold by Soraya Sáenz de Santamaría?

- Correct..... 1
- Incorrect..... 2
- D.K..... 8
- N. A..... 9

Correct answer: Vice-President of the Government, Minister of Presidency, or Government's spokeswomen, the three responses were codified as correct by the interviewers (Soraya Sáenz de Santamaría held these three offices, something which is usual in Spain for the vice-president of the government). Soraya Sáenz de Santamaría is a relevant political actor of the incumbent government.

Correct 13: Could you relate these symbols with a given trade union or political party?

Logo PSOE

Correct 14: Could you relate these symbols with a given trade union or political party?

Logo PP

Correct 15: Could you relate these symbols with a given trade union or political party?

Logo UGT

Note: The respondent is faced with three different symbols. The pictures represent respectively the logo of PSOE (social-democrats, at the time of the interview the main opposition party), PP (the incumbent conservative party at the time of the interview) and UGT (one of the two main national trade unions in Spain). The correct answers were codified by the interviewers and correspond to the logo indicated in each question.

Correct 16: Please associate the following political leaders with their corresponding political party (PP; IU; UPyD; PNV; CiU; Other parties) – M^a Dolores de Cospedal (PP)

Correct 17: Please associate the following political leaders with their corresponding political party (PP; IU; UPyD; PNV; CiU; Other parties) – Cayo Lara (IU)

Correct 18: Please associate the following political leaders with their corresponding political party (PP; IU; UPyD; PNV; CiU; Other parties) – Rosa Díaz (UPyD)

Correct 19: Please associate the following political leaders with their corresponding political party (PP; IU; UPyD; PNV; CiU; Other parties) – Eduardo Madina (PSOE)

Note: The pictures of four political actors (two women and two men) were showed to the respondents: M^a Dolores de Cospedal (PP, the incumbent party at the time of the interview), Rosa Diez (UPyD, a liberal party in the opposition at the time of the interview), Eduardo Madina (PSOE, social-democrats, at the time of the interview the main opposition party) and Cayo Lara (IU, United Left, in the opposition at the time of the interview). They all constitute prominent political figures of the incumbent's government and different opposition parties. For each figure, the respondent had to choose among the six proposed parties.

Correct 23: Which of the following defines the main (most relevant) characteristic of a market economy?

- The duty to belong to a Trade Union..... 1
- The total regulation of the economy..... 2
- Free competition among companies in the market..... 3 (CORRECT)
- The duty to pay taxes..... 4
- (DO NOT READ) Does not know what a market economy is.. 5
- D.K..... 8
- N.A 9

Table A5. Replication of main analyses presented in Table 2 with classic items as the dependent variable (Finland)

	Model 1	Model 2	Model 3	Model 4
Education	4.884*** (0.600)	4.940*** (0.599)	4.874*** (0.599)	4.825*** (0.601)
Age	1.184*** (0.188)	1.200*** (0.187)	1.207*** (0.188)	1.183*** (0.188)
Female	-9.818*** (2.411)	-4.147 (3.851)	-5.932 (3.807)	-7.003** (3.279)
Politicized family	2.865 (2.452)	2.832 (2.445)	2.901 (2.450)	2.790 (2.451)
Lives with partner	2.735 (2.950)	7.412* (3.848)	2.106 (2.985)	2.709 (2.948)
In paid employment	-1.130 (2.619)	-1.795 (2.635)	2.310 (3.696)	-1.193 (2.618)
Has a child	-6.597** (2.816)	-6.514** (2.808)	-6.469** (2.816)	-3.306 (3.832)
Female # partner		-9.140* (4.851)		
Female # paid employment			-6.365 (4.830)	
Female # child				-6.055 (4.785)
Constant	4.599 (5.761)	1.480 (5.977)	2.080 (6.065)	3.805 (5.791)
Observations	428	428	428	428
R-squared	0.275	0.281	0.278	0.278

OLS regression coefficients. Standard errors in parentheses. *** p<0.01, ** p<0.05, * p<0.1

Table A6. Replication of main analyses presented in Table 3 with classic items as the dependent variable (Spain)

	Model 1	Model 2	Model 3	Model 4
Education	5.930*** (0.347)	5.917*** (0.347)	5.925*** (0.347)	5.900*** (0.347)
Age	0.893*** (0.0926)	0.898*** (0.0927)	0.893*** (0.0926)	0.905*** (0.0926)
Female	-9.079*** (1.143)	-7.063*** (1.712)	-7.177*** (1.703)	-6.694*** (1.512)
Politicized family	7.457*** (1.199)	7.362*** (1.200)	7.421*** (1.199)	7.381*** (1.198)
Lives with partner	2.493* (1.442)	4.297** (1.838)	2.461* (1.441)	2.096 (1.449)
In paid employment	3.292*** (1.193)	3.221*** (1.194)	4.979*** (1.637)	3.176*** (1.193)
Has a child	-4.329*** (1.489)	-4.547*** (1.495)	-4.415*** (1.490)	-1.428 (1.915)
Female # partner		-3.581 (2.264)		
Female # paid employment			-3.395 (2.256)	
Female # child				-5.515** (2.292)
Constant	8.627*** (2.876)	7.699*** (2.934)	7.710*** (2.939)	7.578*** (2.905)
Observations	1,682	1,682	1,682	1,682
R-squared	0.300	0.301	0.301	0.303

OLS regression coefficients. Standard errors in parentheses. *** p<0.01, ** p<0.05, * p<0.1

Table A7. Descriptive statistics

Finland (full sample)

Variable	Obs	Mean	Std. Dev.	Min	Max
Political Knowledge	1020	69.66	22.90	0	100
Education	1019	3.91	2.26	1	9
Age	1020	48.96	17.75	18	91
Female	1020	0.50	0.50	0	1
Lives with partner	1020	0.77	0.42	0	1
Paid employment	1020	0.49	0.50	0	1
Has one child	1020	0.33	0.47	0	1
Politicized family	1017	0.34	0.47	0	1

Spain (full sample)

Variable	Obs	Mean	Std. Dev.	Min	Max
Political Knowledge	2964	67.38	22.12	0	100
Education	2958	3.27	1.94	0	6
Age	2962	44.27	17.08	18	96
Female	2962	0.50	0.50	0	1
Lives with partner	2958	0.62	0.48	0	1
Paid employment	2964	0.46	0.50	0	1
Has one child	2964	0.45	0.50	0	1
Politicized family	2833	0.30	0.46	0	1

Finland (sample 18 to 44)

Variable	Obs	Mean	Std. Dev.	Min	Max
Political Knowledge	428	62.43	23.90	0	100
Education	428	4.53	1.99	1	9
Age	428	31.28	7.19	18	44
Female	428	0.53	0.50	0	1
Lives with partner	428	0.63	0.48	0	1
Paid employment	428	0.61	0.49	0	1
Has one child	428	0.48	0.50	0	1
Politicized family	428	0.38	0.49	0	1

Spain (sample 18 to 44)

Variable	Obs	Mean	Std. Dev.	Min	Max
Political Knowledge	1746	68.50	21.35	0	100
Education	1745	3.82	1.72	0	6
Age	1746	32.31	7.42	18	44
Female	1746	0.49	0.50	0	1
Lives with partner	1744	0.55	0.50	0	1
Paid employment	1746	0.56	0.50	0	1
Has one child	1746	0.43	0.49	0	1
Politicized family	1685	0.36	0.48	0	1

Table A8. Levels of political knowledge in Finland and Spain by age and for men and women

	Finland	Spain
Education	3.64*** (0.28)	4.90*** (0.20)
Politicized family	4.69*** (1.29)	5.62*** (0.80)
Women	2.63 (9.31)	1.44 (5.11)
Age	1.93*** (0.29)	1.73*** (0.16)
Age ²	-0.01*** (0.00)	-0.02*** (0.00)
Women * Age	-0.39 (0.40)	-0.32 (0.22)
Women * Age ²	0.00 (0.00)	0.00 (0.00)
Constant	1.22 (6.85)	12.10*** (3.68)
Observations	1,016	2,829
R-squared	0.31	0.32
Standard errors in parentheses. *** p<0.01, ** p<0.05, * p<0.1		

Table A9. Replication of Table 2 for the whole sample (including >44): Finland

	Model 1	Model 2	Model 3	Model 4
Education	3.679*** (0.281)	3.670*** (0.280)	3.683*** (0.281)	3.682*** (0.281)
Age	1.718*** (0.221)	1.748*** (0.220)	1.725*** (0.222)	1.700*** (0.221)
Age ²	-0.013*** (0.002)	-0.013*** (0.002)	-0.013*** (0.002)	-0.012*** (0.002)
Female	-8.491*** (1.204)	-1.243 (2.519)	-7.961*** (1.676)	-6.525*** (1.459)
Politicized family	4.355*** (1.284)	4.419*** (1.278)	4.341*** (1.285)	4.188*** (1.283)
Lives with partner	1.489 (1.652)	6.042*** (2.154)	1.452 (1.655)	1.390 (1.649)
In paid employment	0.984 (1.427)	0.782 (1.422)	1.522 (1.854)	0.764 (1.427)
Has a child	-3.249** (1.491)	-3.482** (1.486)	-3.264** (1.492)	0.0261 (2.029)
Female # partner		-9.335*** (2.855)		
Female # paid employment			-1.093 (2.405)	
Female # child				-6.126** (2.583)
Constant	7.405 (4.880)	3.612 (4.993)	6.997 (4.964)	7.300 (4.869)
Observations	1,016	1,016	1,016	1,016
R-squared	0.309	0.316	0.309	0.312

OLS coefficients. Standard errors in parentheses. *** p<0.01, ** p<0.05, * p<0.1

Table A10. Replication of Table 3 for the whole sample (including >44): Spain

	Model 1	Model 2	Model 3	Model 4
Education	4.806*** (0.205)	4.776*** (0.204)	4.809*** (0.205)	4.796*** (0.205)
Age	1.470*** (0.128)	1.498*** (0.128)	1.468*** (0.128)	1.484*** (0.128)
Female	-0.013*** (0.001)	-0.014*** (0.001)	-0.013*** (0.001)	-0.013*** (0.001)
Politicized family	-7.060*** (0.687)	-4.147*** (1.129)	-6.838*** (0.937)	-6.023*** (0.929)
Lives with partner	5.759*** (0.779)	5.728*** (0.778)	5.761*** (0.779)	5.739*** (0.779)
In paid employment	1.929** (0.836)	4.392*** (1.128)	1.932** (0.836)	1.814** (0.838)
Has a child	2.598*** (0.769)	2.452*** (0.769)	2.835*** (1.026)	2.513*** (0.771)
Female # partner		-4.629*** (1.426)		
Female # paid employment			-0.479 (1.374)	
Female # child				-2.297* (1.385)
Constant	17.202*** (2.708)	15.581*** (2.749)	17.111*** (2.721)	16.625*** (2.730)
Observations	2,823	2,823	2,823	2,823
R-squared	0.321	0.323	0.321	0.321

OLS coefficients. Standard errors in parentheses. *** p<0.01, ** p<0.05, * p<0.1

Table A11. Replication of models in Table 2 with additional control variables. Finland

	Model 1	Model 2	Model 3	Model 4
Education	3.625*** (0.480)	3.652*** (0.481)	3.619*** (0.480)	3.611*** (0.481)
Age	0.778*** (0.148)	0.786*** (0.148)	0.791*** (0.148)	0.779*** (0.148)
Female	-4.855*** (1.869)	-3.047 (2.973)	-2.418 (2.950)	-4.109 (2.530)
Lives with partner	3.625*** (0.480)	3.652*** (0.481)	3.619*** (0.480)	3.611*** (0.481)
Has paid employment	-2.757 (2.064)	-2.966 (2.082)	-0.584 (2.898)	-2.772 (2.066)
Has a child	-4.081* (2.176)	-4.063* (2.177)	-4.003* (2.177)	-3.193 (2.976)
Interest in politics	8.353*** (1.309)	8.255*** (1.315)	8.397*** (1.309)	8.308*** (1.314)
Political information (TV)	1.904** (0.840)	1.918** (0.840)	1.870** (0.840)	1.926** (0.842)
Political information (Radio)	0.657 (0.707)	0.634 (0.708)	0.655 (0.707)	0.633 (0.710)
Political information (Newspapers)	2.832*** (0.982)	2.778*** (0.985)	2.858*** (0.982)	2.800*** (0.986)
Politicized family	-0.792 (1.947)	-0.761 (1.948)	-0.769 (1.946)	-0.794 (1.948)
Female * partner		-2.952 (3.776)		
Female * paid employment			-3.973 (3.722)	
Female * child				-1.632 (3.728)
Constant	-16.42*** (5.639)	-17.08*** (5.704)	-18.08*** (5.848)	-16.46*** (5.645)
Observations	427	427	427	427
R-squared	0.424	0.425	0.425	0.424

OLS coefficients. Standard errors in parentheses. *** p<0.01, ** p<0.05, * p<0.1

Table A12. Replication models in Table 3 with additional control variables. Spain.

	Model 1	Model 2	Model 3	Model 4
Education	3.587*** (0.268)	3.584*** (0.268)	3.587*** (0.268)	3.580*** (0.268)
Age	0.468*** (0.0678)	0.473*** (0.0678)	0.468*** (0.0678)	0.476*** (0.0679)
Female	-3.887*** (0.842)	-2.222* (1.241)	-3.709*** (1.239)	-2.572** (1.100)
Lives with partner	1.609 (1.049)	3.102** (1.330)	1.605 (1.050)	1.375 (1.056)
Has paid employment	2.674*** (0.876)	2.629*** (0.875)	2.833** (1.193)	2.619*** (0.875)
Has a child	-1.931* (1.081)	-2.106* (1.084)	-1.938* (1.082)	-0.313 (1.388)
Interest in politics	5.509*** (0.510)	5.493*** (0.510)	5.504*** (0.511)	5.500*** (0.510)
Political information (TV)	1.433*** (0.369)	1.478*** (0.370)	1.436*** (0.370)	1.453*** (0.369)
Political information (Radio)	0.432* (0.257)	0.410 (0.257)	0.431* (0.257)	0.428* (0.257)
Political information (Newspapers)	1.536*** (0.274)	1.521*** (0.274)	1.538*** (0.274)	1.509*** (0.274)
Politicized family	2.447*** (0.906)	2.377*** (0.906)	2.445*** (0.906)	2.421*** (0.905)
Female * partner		-2.991* (1.639)		
Female * paid employment			-0.319 (1.632)	
Female * child			-0.319	-3.076* (1.658)
Constant	24.93*** (2.271)	24.04*** (2.321)	24.84*** (2.323)	24.29*** (2.295)
Observations	1,669	1,669	1,669	1,669
R-squared	0.401	0.402	0.401	0.402

OLS coefficients. Standard errors in parentheses.