

## Appendix: Supplementary Analyses

### Mixed Electoral Systems

	(1)	(2)	(3)
	Independent Candidates (% of total)	Independent Candidate Vote (% of total)	Independent Candidate Seats (% of total)
Majority/Plurality Systems	0.29 (0.30)	1.34** (0.22)	1.44** (0.36)
Mixed Electoral System	1.25* (0.61)	1.26** (0.34)	0.44** (0.11)
District Magnitude	0.003 (0.03)	-0.01 (0.01)	-0.01 (0.01)
District Size	3.92e-07 (2.15e-07)	-2.64e-07** (4.75e-08)	-1.97e-07** (5.67e-08)
First Elections	5.23** (0.81)	4.39** (0.80)	4.83** (1.17)
Constant	5.74** (0.44)	0.27 (0.23)	-0.35 (0.36)
R-squared (within)	0.013	0.012	0.006
R-squared (between)	0.178	0.048	0.045
Observations	14922	28063	28063

Fixed-effects not shown. Robust standard errors in parentheses,  
\*significant at 5%; \*\* significant at 1%

### Majority and Plurality Systems Separated

	(1)	(2)	(3)
	Independent Candidates (% of total)	Independent Candidate Vote (% of total)	Independent Candidate Seats (% of total)
Majority Systems	-0.36 (0.72)	1.13** (0.27)	0.98** (0.37)
Plurality Systems	0.53 (0.28)	1.40** (0.27)	1.55** (0.45)
District Magnitude	0.01 (0.03)	-0.01 (0.01)	-0.01 (0.01)
District Size	3.69e-07 (2.17e-07)	-2.71e-07** (5.04e-08)	-2.10e-07** (6.15e-08)
First Elections	5.26** (0.81)	4.41** (0.81)	4.83** (1.17)
Constant	5.68** (0.43)	0.32 (0.26)	-0.39 (0.40)
R-squared (within)	0.013	0.012	0.006
R-squared (between)	0.174	0.015	0.039
Observations	14922	28063	28063

Fixed-effects not shown. Robust standard errors in parentheses. \* significant at 5%; \*\* significant at 1%

### Full Model without District Magnitude

	(1)	(2)	(3)
	Independent Candidates (% of total)	Independent Candidate Vote (% of total)	Independent Candidate Seats (% of total)
Majority/Plurality Systems	0.27 (0.25)	1.24** (0.20)	1.34** (0.33)
District Size	3.95e-07 (2.03e-07)	-2.42e-07** (4.05e-08)	-1.24e-07** (4.22e-08)
First Elections	5.26** (0.81)	3.38** (0.67)	3.91** (0.96)
Constant	5.86** (0.40)	0.44* (0.21)	-0.11 (0.32)
R-squared	0.013	0.010	0.005
R squared (between)	0.133	0.014	0.038
Observations	14922	29183	29183

Fixed-effects not shown. Robust standard errors in parentheses. \* significant at 5%; \*\* significant at 1%

### First Ten Years of Democracy

	(1)	(2)	(3)
	Independent Candidates (% of total)	Independent Candidate Vote (% of total)	Independent Candidate Seats (% of total)
Majority/Plurality Systems	0.25 (0.33)	1.32** (0.22)	1.42** (0.36)
District Magnitude	-0.001 (0.03)	-0.01 (0.01)	-0.01 (0.01)
District Size	4.26e-07 (2.18e-07)	-2.64e-07** (4.61e-08)	-2.01e-07** (5.53e-08)
First 10 years of Democracy	7.22** (0.71)	0.90* (0.41)	0.51 (0.56)
Constant	5.44** (0.47)	0.36 (0.23)	-0.32 (0.35)
R-squared (within)	0.020	0.006	0.002
R-squared (between)	0.064	0.062	0.064
Observations	14922	28063	28063

Fixed-effects not shown. Robust standard errors in parentheses. \*significant at 5%; \*\* significant at 1%

## Democratic Waves

	(1)	(2)	(3)
	Independent Candidates (% of total)	Independent Candidate Vote (% of total)	Independent Candidate Seats (% of total)
Majority/Plurality Systems	11.85** (3.75)	7.58** (2.69)	5.65* (2.57)
Open-List PR systems	15.27** (4.06)	4.46** (1.44)	3.20** (1.23)
District Magnitude	-1.64** (0.57)	-0.04 (0.03)	-0.02 (0.02)
District Size	-7.10e-07 (7.94e-07)	-2.50e-07 (3.98e-07)	-2.94e-07 (3.34e-07)
First Wave Democracy	-14.32* (5.56)	-8.29** (3.10)	-6.40* (3.10)
Second Wave Democracy	-12.73* (5.50)	-5.34 (2.83)	-4.80 (2.76)
Constant	8.84* (3.92)	0.35 (0.94)	1.17 (0.73)
Observations	14922	28063	28063
R-squared	0.154	0.115	0.042

Robust clustered standard errors in parentheses. \* significant at 5%; \*\* significant at 1%

Note: F-test for first wave and second wave are jointly significant at the 5% level in Models 1-3.

## PR Models Excluding Countries with Highest Threshold (Turkey)

	(1)	(2)
	Independent Candidate Vote (% of total)	Independent Candidate Seats (% of total)
Open-List PR systems	0.85** (0.26)	-0.05 (0.29)
District Magnitude	-0.02 (0.01)	-0.01 (0.01)
District Size	8.14e-08 (9.61e-08)	1.08e-07 (8.91e-08)
Electoral Threshold	-0.07** (0.02)	-0.03 (0.02)
First Elections	0.75* (0.33)	0.45 (0.24)
Constant	2.53* (0.98)	2.34* (0.92)
R-squared (within)	0.017	0.013
R-squared (between)	0.085	0.018
Observations	2963	2963

Fixed-effects not shown. Robust standard errors in parentheses. \* significant at 5%; \*\* significant at 1%

The results for the number of candidates (% of total) are not shown due to limited data. Results, nonetheless, show that thresholds reduce the number of candidates (% of total) that compete in elections.

### PR Model without Single National Districts

	(1)	(2)
	Independent Candidate Vote (% of total)	Independent Candidate Seats (% of total)
Open-List PR systems	0.85** (0.26)	-0.04 (0.29)
District Magnitude	-0.02* (0.01)	-0.02 (0.01)
District Size	-1.60e-07 (1.46e-07)	-1.87e-07 (1.81e-07)
Electoral Threshold	-0.09** (0.03)	-0.06 (0.03)
First Elections	0.76* (0.33)	0.47 (0.25)
Constant	2.67** (0.99)	2.53** (0.93)
R-squared (within)	0.016	0.012
R squared (between)	0.0033	0.0002
Observations	3112	3112

Fixed-effects not shown. Robust standard errors in parentheses. \* significant at 5%; \*\* significant at 1%

The results for the number of candidates (% of total) are not shown due to limited data. Results, nonetheless, show that thresholds reduce the number of candidates (% of total) that compete in elections.

### Model with SE Clustered by Election (No Fixed Effects)

	(1)	(2)	(3)	(4)	(5)
	Independent Candidates (% of total)	Independent Candidate Vote (% of total)	Independent Candidate Vote (% of total)	Independent Candidate Vote (% of total)	Independent Candidate Seats (% of total)
Majority/Plurality Systems	5.10 (2.88)	1.20* (0.50)			1.06* (0.42)
Open-List PR systems	7.03* (2.92)	1.14* (0.48)		1.30** (0.31)	0.93* (0.44)
District Magnitude	-0.84** (0.24)	-0.07 (0.04)	-0.96 (0.57)	0.01 (0.01)	-0.04 (0.03)
District Size	9.47e-07 (7.73e-07)	6.84e-07 (7.15e-07)	1.12e-06 (9.56e-07)	-7.16e-07** (2.23e-07)	3.57e-07 (5.96e-07)
First Elections	14.27 (12.76)	7.86 (5.49)	10.54 (6.36)	-0.53* (0.24)	8.36 (5.42)
Electoral Threshold				0.04 (0.05)	
Constant	2.29 (2.90)	0.45 (0.34)	2.50* (1.00)	0.42* (0.20)	-0.10 (0.29)
R-squared	0.032	0.020	0.027	0.024	0.015
Observations	14922	28063	24931	3132	28063
	All Systems	All Systems	Majority/ Plurality Only	PR Systems Only	All Systems

Robust clustered standard errors in parentheses. \* significant at 5%; \*\* significant at 1%.

### Models Excluding Countries with the Strongest Independent Candidates (Russia and Pakistan)

	(1)	(2)	(3)	(4)	(5)
	Independent Candidates (% of total)	Independent Candidate Vote (% of total)	Independent Candidate Vote (% of total)	Independent Candidate Vote (% of total)	Independent Candidate Seats (% of total)
Majority/Plurality Systems	0.22 (0.29)	1.28** (0.22)			1.39** (0.36)
Open-List PR systems				0.96** (0.27)	
District Magnitude	-0.00 (0.03)	-0.02* (0.01)	0.31* (0.14)	-0.02 (0.01)	-0.01 (0.01)
District Size	4.96e-07* (2.17e-07)	-1.40e-07** (3.31e-08)	-1.60e-07** (4.56e-08)	-1.51e-07 (1.17e-07)	-1.12e-07** (4.06e-08)
First Elections	2.32** (0.44)	1.85** (0.46)	2.66** (0.71)	0.76* (0.33)	1.86** (0.65)
Constant	3.22** (0.43)	-0.54* (0.23)	0.14 (0.20)	2.48* (0.99)	-0.96** (0.35)
R-squared (within)	0.013	0.012	0.011	0.015	0.005
R squared (between)	0.003	0.018	0.033	0.021	0.002
Observations	13805	26945	23813	3132	26945
	All Systems	All Systems	Majority/ Plurality Only	PR Only	All Systems

Robust standard errors in parentheses. \*significant at 5%; \*\*significant at 1%

Fixed-effects not shown. Robust standard errors in parentheses. \* significant at 5%; \*\* significant at 1%

### Main Models Excluding Countries with No Independent Candidates

	(1)	(2)	(3)	(4)
	Independent Candidates (% of total)	Independent Candidate Vote (% of total)	Independent Candidate Vote (% of total)	Independent Candidate Seats (% of total)
Majority/Plurality Systems	0.29 (0.30)	1.34** (0.23)		1.45** (0.38)
Open-List PR systems			0.89** (0.29)	
District Magnitude	0.01 (0.03)	-0.02 (0.01)	-0.03* (0.01)	-0.02 (0.01)
District Size	3.91e-07 (2.15e-07)	-2.72e-07** (4.89e-08)	-1.97e-07 (1.73e-07)	-2.03e-07** (5.82e-08)
First Elections	5.26** (0.81)	4.41** (0.80)	0.81* (0.36)	4.83** (1.17)
Electoral Threshold			-0.10** (0.03)	
Constant	5.83** (0.44)	2.22** (0.31)	1.43** (0.29)	0.77 (0.44)
R-squared (within)	0.013	0.012	0.017	0.006
R squared (between)	0.132	0.004	0.196	0.023
Observations	14922	26759	2676	26759
	All Systems	All Systems	PR systems Only	All Systems

Fixed-effects not shown. Robust standard errors in parentheses. \* significant at 5%; \*\* significant at 1%

There are too few countries with majority/plurality systems in this analysis to restrict it further to only majority/plurality systems.