Paths to power and ministers' durability: The Portuguese case

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Online Appendix

Table A1: Variables - Paths to Power

Variables	Designation	Definitions
Party	р	Dummy variable 1 if the minister attained power through the Party; 0 otherwise.
Parliament	рр	Dummy variable 1 if the minister attained power through Parliament-cum-Party; 0 otherwise.
Public Service	sp	Dummy variable 1 if the minister attained power through the Public Service; 0 otherwise.
Independent	i	Dummy variable 1 if the minister is considered Independent; 0 otherwise. In the estimation, this variable is dropped in order to avoid collinearity.

Variables	Definitions
Experience as Minister (Em)	Dummy variable 1 if the minister was
	minister in any government but the previous; 0
	otherwise.
Experience as 'Junior Minister'	Dummy variable 1 if the minister was
(Es)	'junior minister' in any government but the
	previous; 0 otherwise.
Served as Minister in the previous	Dummy variable 1 if the minister was a
government (Sm)	minister in the previous government; 0 otherwise.
Served as 'Junior Minister' in the previous or	Dummy variable 1 if the minister was a
current government (Ss)	'junior minister' in the previous government or in
	the government to which he was nominated; 0
	otherwise.
Top Portfolio (Top)	Dummy variable 1 if the portfolio of the
	minister is one of the two most important policy
	issues in the legislature according to Volkens <i>et al.</i>
	(2017).

Variables	Definitions
Percentage of parliament support (Maj)	The percentage of members of parliament that support the government at the beginning of the legislature.
Minority (Min)	Dummy variable 1 if the minister belongs to a supporting minority party, in case of coalition; 0 otherwise. In the period under analysis, coalition governments were supported by two parties.
Parliamentary support	4 dummy variables that represent the combinations of parties that support the government (Partido Socialista (GPS); Partido Social Democrata (GPSD); Partido Social Democrata and Centro Democrático Social (GPSDCDS); and Partido Socialista and Partido Social Democrata (GPSPSD)). When we condition on this variable in the regression analysis we use 3 dummies, to avoid collinearity.
Percentage of the minority party that supports the coalition (Pmin)	The percentage of members of parliament of the minority party that supports the government at the beginning of the legislature.
Cohabitation (Coh)	Dummy variable 1 if the Prime Minister and the President are from the different parties (cohabitation); 0 otherwise. When there is more than one President during a government, we consider the one that lasted longer.
President 2 nd Term (Pres2)	Dummy variable 1 if the President is in the second term; 0 otherwise. When there is more than one President or President term during a government, we consider the one that lasted longer.
Term	Term currently being served by the PM. Until today, the maximum amount of terms in the period under analysis in Portugal was three. Thus, when we condition on this variable in the regression analysis, we only use two dummies.
Prime Minister	8 PM identifiers. When we condition on this variable in the regression analysis, we use 7 dummies.

Table A3: Institutional characteristics of the governments and PM's identifiers

Variables	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Party	0.745 (0.401)	0.707 (0.407)	0.750 (0.437)	0.732 (0.441)	0.736 (0.436)	0.550 (0.314)	0.534 (0.309)
Parliamentary	1.078 (0.595)	1.234 (0.711)	1.461 (0.895)	1.535 (0.955)	1.485 (0.909)	1.052 (0.599)	1.013 (0.583)
Independent	1.004 (0.597)	1.086 (0.681)	1.033 (0.644)	1.040 (0.669)	0.997 (0.630)	0.991 (0.599)	0.949 (0.587)
Personal Characteristics	No	Yes	No	Yes	Yes	Yes	Yes
Political Characteristics	No	No	Yes	Yes	Yes	No	No
Term	No	No	No	No	Yes	Yes	No
Prime Ministers	No	No	No	No	No	Yes	No
Terms x Prime Ministers	No	No	No	No	No	No	Yes
Observations	336	336	336	336	336	336	336
Schoenfeld (d.f.)	1.87 (3)	3.71 (8)	10,07 (11)	9,17 (16)	9,65 (17)	8.54 (17)	6.62 (22)
p-value	0.6	0.8819	0.5239	0.8818	0.9175	0.9531	0.9993

Table A4: Hazard rates for Cox models for all ministers - 'Public Service' as base

Variables	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Party	0.691 (0.185)	0.573* (0.182)	0.534* (0.200)	0.477* (0.192)	0.495* (0.200)	0.523* (0.205)	0.527* (0.203)
Public Service	0.928 (0.512)	0.810 (0.467)	0.689 (0.420)	0.651 (0.405)	0.673 (0.412)	0.951 (0.542)	0.988 (0.569)
Independent	0.931 (0.346)	0.880 (0.333)	0.735 (0.287)	0.677 (0.272)	0.671 (0.270)	0.942 (0.372)	0.937 (0.364)
Personal Characteristics	No	Yes	No	Yes	Yes	Yes	Yes
Political Characteristics	No	No	Yes	Yes	Yes	No	No
Terms	No	No	No	No	Yes	Yes	No
Prime Ministers	No	No	No	No	No	Yes	No
Terms x Prime Ministers	No	No	No	No	No	No	Yes
Observations	336	336	336	336	336	336	336
Schoenfeld (d.f.)	1.87 (3)	3.71 (8)	10,07 (11)	9,17 (16)	9,65 (17)	8.54 (17)	6.62 (22)
p-value	0.6	0.8819	0.5239	0.8818	0.9175	0.9531	0.9993

Table A5: Hazard rates for Cox models for all ministers - 'Parliamentary' as base

Variables	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Party	0.707 (0.269)	0.581 (0.232)	0.579 (0.240)	0.553 (0.236)	0.582 (0.251)	0.457* (0.194)	0.452* (0.198)
Parliamentary	1.093 (0.438)	1.144 (0.448)	1.419 (0.584)	1.532 (0.627)	1.548 (0.637)	1.157 (0.475)	1.134 (0.465)
Public Service	0.614 (0.455)	0.564 (0.449)	0.466 (0.395)	0.468 (0.423)	0.515 (0.457)	0.516 (0.459)	0.591 (0.546)
Personal Characteristics	No	Yes	No	Yes	Yes	Yes	Yes
Political Characteristics	No	No	Yes	Yes	Yes	No	No
Terms	No	No	No	No	Yes	Yes	No
Prime Ministers	No	No	No	No	No	Yes	No
Terms x Prime Ministers	No	No	No	No	No	No	Yes
Observations	267	267	267	267	267	267	267
Schoenfeld (d.f.)	3.88 (3)	4.48 (8)	11.6 (11)	10.54 (15)	11.06 (17)	8.57 (18)	6.77 (19)
p-value	0.2745	0.8118	0.3943	0.8367	0.8535	0.9690	0.9954

Table A6: Hazard rates for Cox models for ministers who entered at the start of government -

'Independence' as base

Table A7: Hazard rates for Cox models for interaction variables between paths to power and terms -

Variables	(1)	(2)	(3)	(4)	(6)
p in other term	1.873	1.609	1.928	1.621	1.897
	(0.751)	(0.746)	(1.102)	(0.967)	(1.038)
pp in the first term	1.885	1.911	2.198*	2.224*	2.237*
	(0.787)	(0.849)	(1.025)	(1.074)	(1.075)
pp in other term	2.708**	2.526	2.628	2.555	2.459
	(1.336)	(1.429)	(1.564)	(1.666)	(1.542)
sp in the first term	2.464	2.192	2.293	2.120	3.071*
	(1.591)	(1.490)	(1.568)	(1.499)	(1.997)
sp in other term	1.197	1.072	1.042	0.962	1.480
	(1.350)	(1.280)	(1.260)	(1.248)	(1.870)
i in the first term	1.369	1.301	1.148	1.040	1.657
	(0.733)	(0.708)	(0.651)	(0.599)	(0.916)
i in other term	3.382**	2.823*	3.554**	2.952*	3.520**
	(1.687)	(1.521)	(1.929)	(1.676)	(1.977)
Personal Characteristics	No	Yes	No	Yes	Yes
Political Characteristics	No	No	Yes	Yes	No
Prime Ministers	No	No	No	No	Yes
Observations	336	336	336	336	336
Schoenfeld (d.f.)	5.83 (7)	6.48 (13)	11,44 (15)	11,73 (21)	8.19 (21)
p-value	0.5593	0.9268	0.7205	0.9467	0.9943

'Party' in the first term as base

Variables	(1)	(2)	(3)	(4)	(5)	(6)	(7)
n	0.742	0.702	0.741	0.725	0.725	0.544	0.529
þ	(0.399)	(0.405)	(0.422)	(0.430)	(0.429)	(0.311)	(0.307)
nn	1.078	1.234	1.436	1.529	1.523	1.051	1.012
PP	(0.594)	(0.712)	(0.833)	(0.897)	(0.894)	(0.601)	(0.584)
sp	1.018	1.102	1.018	1.061	1.060	1.018	0.969
1	(0.606)	(0.693)	(0.620)	(0.667)	(0.665)	(0.619)	(0.602)
o.i	-	-	-	-	-	-	-
F		0.543**		0.519**	0.529**	0.512**	0.521**
Em		(0.165)		(0.163)	(0.166)	(0.166)	(0.170)
E		1.363		1.393	1.399	1.632	1.604
ES		(0.389)		(0.410)	(0.415)	(0.504)	(0.484)
Der		1.706**		1.508	1.256	1.270	1.232
PIII		(0.457)		(0.429)	(0.420)	(0.419)	(0.421)
D		0.831		0.733	0.677	0.637	0.588
PS		(0.292)		(0.286)	(0.267)	(0.241)	(0.226)
Ŧ		1.225		1.300	1.247	1.215	1.231
Top		(0.384)		(0.404)	(0.389)	(0.390)	(0.388)
			1.012	1.009	1.005	. ,	
Maj			(0.0228)	(0.0228)	(0.0228)		
			0.436	0.422	0.408		
Min			(0.238)	(0.229)	(0.227)		
			0.920***	0.927***	0.929***		
Pmin			(0.0211)	(0.0221)	(0.0219)		
CDC			0.172**	0.145**	9.553e+06		
GPS			(0.121)	(0.113)	(0)		
CDCD			0.159***	0.128***	8.023e+06***		
GPSD			(0.0995)	(0.0923)	(3.399e+06)		
CDCD CDC			0.173***	0.141***	0.133***		
GPSDCDS			(0.110)	(0.0946))	(0.0921)		
o.gpspsd			-	-	-		
0.1			0.946	0.929	0.944		
Con			(0.306)	(0.333)	(0.340)		
D 0			1.779	1.735	1.315e+08***		
Pres2			(0.691)	(0.690)	(1.054e+08)		
Terms	No	No	No	No	Yes	Yes	No
Prime Ministers	No	No	No	No	No	Yes	No
Terms x Prime							T.
Ministers	No	o No	No	No	No	No	Yes
Observations	336	336	336	336	336	336	336
Schoenfeld		3.70	7.62	7,15	8.82		
(d f)	2.04 (3)	(8)	(9)	(14)	(16)	8.54 (18)	6.67 (22)
(u.i.)	0 5616	0 0025	0.5724		0.0200	0.0604	0.0002
p-value	0.3046	0.8855	0.5724	0.9288	0.9208	0.9694	0.9993

Table A8: Hazard rates for Cox models for all variables