

Appendix

A.1.1 - Average SUS-Dependency Ratio in Capital versus Non-Capital Municipalities (2000-2017), by State

	State Capitals		All Other	
	Mean	StdDev	Mean	StdDev
Rondônia	83.7	4.9	95.4	3.0
Acre	90.3	2.4	98.9	0.4
Amazonas	80.6	7.0	99.1	1.0
Roraima	92.7	2.2	99.6	0.5
Pará	73.9	4.3	95.6	4.0
Amapá	88.1	2.4	97.2	2.5
Tocantins	83.7	2.2	97.0	2.5
Maranhão	77.5	5.2	98.2	1.4
Piauí	81.2	5.8	98.1	1.9
Ceará	72.2	7.1	96.6	2.8
Rio Grande do Norte	68.2	5.0	93.9	3.5
Paraíba	74.8	3.7	95.4	2.7
Pernambuco	61.9	3.4	91.9	4.1
Alagoas	77.7	5.6	97.0	2.1
Sergipe	69.9	5.1	96.3	4.5
Bahia	75.2	2.4	94.7	3.6
Minas Gerais	53.2	5.4	81.7	9.3
Espírito Santo	33.3	3.6	78.5	8.6
Rio de Janeiro	51.0	3.6	78.8	10.7
São Paulo	46.6	2.0	66.5	13.5
Paraná	51.9	5.3	84.8	7.9
Santa Catarina	59.5	5.1	81.5	8.4
Rio Grande do Sul	59.5	8.6	83.5	9.8
Mato Grosso do Sul	76.1	2.7	87.8	6.8
Mato Grosso	68.9	6.0	92.3	5.7
Goiás	73.6	4.1	84.7	5.2
Brasília (DF)	72.4	2.0	-	-
Brazil	70.3	14.3	93.7	9.1

Source: Authors' calculation based on ANS (2018), DATASUS (2018) and IBGE (2018).

A.1.2 - Average SUS-Dependency Ratio (2000-2017), by State and Municipal Size

	Less than 10,000		10,001 - 50,000		50,001 - 100,000		100,001 - 200,000		200,001 - 1,000,000		> 1,000,000		All	
	N	Ratio	N	Ratio	N	Ratio	N	Ratio	N	Ratio	N	Ratio	N	Ratio
Rondônia	14	98.2	31	98.1	4	94.4	2	92.3	1	83.7	-	-	52	97.4
Acre	5	99.6	15	99.5	1	98.7	-	-	1	90.3	-	-	22	99.0
Amazonas	4	99.8	48	99.5	8	98.7	1	99.3	-	-	1	80.7	62	99.1
Roraima	4	99.6	10	99.6	-	-	-	-	1	92.8	-	-	15	99.2
Pará	13	98.9	86	99.2	29	97.5	11	92.3	4	89.4	1	73.9	144	98.1
Amapá	6	98.6	8	98.4	-	97.5	1	93.7	1	88.2	-	-	16	97.7
Tocantins	111	99.2	23	97.2	3	91.8	1	92.1	1	82.3	-	-	139	98.6
Maranhão	38	99.8	155	99.4	15	98.3	7	95.7	1	87.6	1	73.7	217	99.2
Piauí	161	99.4	58	98.5	3	94.6	1	93.9	1	81.2	-	-	224	99.0
Ceará	20	99.5	128	98.9	27	97.0	4	93.8	4	89.7	1	72.3	184	98.3
R. Grande do Norte	94	98.8	65	97.1	4	94.0	1	86.9	3	75.8	-	-	167	97.7
Paraíba	135	99.1	78	98.4	6	93.2	2	94.8	2	78.5	-	-	223	98.5
Pernambuco	16	98.1	133	98.6	23	95.6	6	90.2	6	81.8	1	61.9	185	97.3
Alagoas	29	98.5	62	98.7	9	95.7	-	97.9	1	87.2	1	70.6	102	98.2
Sergipe	26	98.2	42	97.1	4	95.5	2	93.7	1	69.9	-	-	75	97.0
Bahia	72	98.9	297	98.6	31	94.8	11	87.8	5	85.4	1	75.3	417	98.0
Minas Gerais	475	95.4	306	90.7	40	78.3	19	72.0	12	70.5	1	53.3	853	92.2
Espírito Santo	9	95.2	57	91.2	3	80.3	4	79.1	5	58.9	-	-	78	88.9
Rio de Janeiro	6	91.8	48	87.8	11	86.7	13	78.2	12	75.2	2	58.0	92	84.7
São Paulo	268	88.9	240	82.6	59	71.9	37	69.4	38	60.9	3	52.8	645	82.4
Paraná	199	94.8	165	91.9	15	86.1	12	79.1	7	74.3	1	51.9	399	92.4
Santa Catarina	166	94.1	100	88.7	16	81.9	6	78.8	7	66.9	-	-	295	91.0
R. Grande do Sul	330	95.4	124	88.9	24	84.7	8	81.7	10	74.2	1	59.6	497	92.6
M. Grosso do Sul	26	93.4	45	91.0	4	88.1	2	80.6	2	74.7	-	-	79	91.1
Mato Grosso	68	97.5	62	95.5	7	86.4	1	88.0	3	78.8	-	-	141	95.8
Goiás	155	97.1	69	95.0	9	91.3	9	90.0	3	86.5	1	73.7	246	95.9
Brasília (DF)	-	-	-	-	-	-	-	-	-	-	1	72.4	1	72.4
Brazil	2,450	95.8	2,455	94.1	355	87.4	161	80.2	132	72.1	17	64.0	5,570	93.6

Source: Authors' calculation based on ANS (2018), DATASUS (2018) and IBGE (2018).

A.2.1 - Ratio of Primary Services to SUS Dependents in Large Capital Cities and States, 2000-2017 (Expanded)

	2000						
	Cap	Non-Capitals			Caps x Non-Caps		
		Mean	SD	Max	Min	+/- (%)	Rank
High Performers							
Curitiba (PR)	6.5	9.8	3.2	23.7	3.3	-34	14
B. Horizonte (MG)	9.7	8.2	3.8	23.4	0.4	18	70
Similar Performance							
São Paulo (SP)	4.6	8.5	3.5	23.3	1.3	-46	7
Porto Alegre (RS)	5.6	4.2	2.0	12.3	0.4	31	79
Belém (PA)	2.0	5.8	2.5	15.5	0.2	-65	5
Low Performers							
Rio de Jan. (RJ)	6.2	7.8	2.1	21.8	4.1	-21	12
Recife (PE)	7.4	7.0	2.3	16.0	1.7	5	65
Fortaleza (CE)	6.9	5.3	2.3	19.0	0.3	30	82
Manaus (AM)	4.2	3.2	2.0	8.8	0.2	31	74
Salvador (BA)	4.0	5.8	2.7	19.6	0.8	-32	25
Goiânia (GO)	2.8	8.6	4.0	23.6	1.2	-68	3
Sample	5.4	7.3	3.6	23.7	0.2	-26	
Brazil	7.0	7.3	3.6	24.8	0.2	-3	

Cap = Capital City, SD = Standard Deviation, +/- (%)=Difference in PSSD provision in percentage, Rank= Capital city PSSD rank within all municipalities in the state (percentile)

Source: Authors' calculation based on SIA/SUS (2018), ANS (2018), and IBGE (2018).

A.2.1 - Ratio of Primary Services to SUS Dependents in Large Capital Cities and States, 2000-2017 (Expanded)

	2005						
	Cap	Non-Capitals			Caps x Non-Caps		
		Mean	SD	Max	Min	+/- (%)	Rank
High Performers							
Curitiba (PR)	11.4	9.7	3.6	22.2	0.8	18	69
B. Horizonte (MG)	10.6	8.0	3.9	23.8	0.5	33	78
Similar Performance							
São Paulo (SP)	8.3	10.8	4.6	25.0	1.1	-23	33
Porto Alegre (RS)	6.9	6.3	3.4	24.0	0.5	9	63
Belém (PA)	4.9	7.2	3.7	17.3	0.9	-33	26
Low Performers							
Rio de Jan. (RJ)	3.8	9.8	3.3	22.7	1.3	-61	2
Recife (PE)	6.8	7.2	2.7	15.8	1.5	-5	51
Fortaleza (CE)	4.2	6.4	2.0	11.9	1.6	-35	8
Manaus (AM)	4.3	4.6	3.5	18.3	0.4	-7	53
Salvador (BA)	4.4	7.2	3.6	24.4	1.0	-39	20
Goiânia (GO)	2.6	9.7	4.1	22.7	1.3	-73	2
Sample	6.2	8.3	4.1	25.0	0.4	-25	
Brazil	6.8	7.9	4.1	25.0	0.2	-14	

Cap = Capital City, SD = Standard Deviation, +/- (%)=Difference in PSSD provision in percentage, Rank= Capital city PSSD rank within all municipalities in the state (percentile)

Source: Authors' calculation based on SIA/SUS (2018), ANS (2018), and IBGE (2018).

A.2.1 - Ratio of Primary Services to SUS Dependents in Large Capital Cities and States, 2000-2017 (Expanded)

	2010						
	Cap	Non-Capitals			Caps x Non-Caps		
		Mean	SD	Max	Min	+/- (%)	Rank
High Performers							
Curitiba (PR)	16.8	11.2	5.1	24.4	0.8	49	84
B. Horizonte (MG)	12.7	11.0	5.1	24.9	0.2	15	67
Similar Performance							
São Paulo (SP)	14.2	13.1	5.2	24.8	1.1	8	60
Porto Alegre (RS)	10.5	8.4	4.4	23.7	0.5	26	73
Belém (PA)	6.9	10.3	5.0	24.7	0.8	-33	26
Low Performers							
Rio de Jan. (RJ)	4.3	12.4	5.8	24.4	1.2	-65	6
Recife (PE)	5.5	8.7	3.6	23.0	1.6	-37	18
Fortaleza (CE)	5.7	11.0	4.2	24.0	2.3	-49	6
Manaus (AM)	5.8	10.1	5.2	24.2	1.7	-43	19
Salvador (BA)	4.3	8.9	4.5	24.7	0.1	-52	15
Goiânia (GO)	4.0	10.2	5.2	24.3	0.8	-61	10
Sample	8.2	10.6	5.1	24.9	0.1	-22	
Brazil	8.6	10.3	5.1	24.9	0.1	-17	

Cap = Capital City, SD = Standard Deviation, +/- (%)=Difference in PSSD provision in percentage, Rank= Capital city PSSD rank within all municipalities in the state (percentile)

Source: Authors' calculation based on SIA/SUS (2018), ANS (2018), and IBGE (2018).

A.2.1 - Ratio of Primary Services to SUS Dependents in Large Capital Cities and States, 2000-2017 (Expanded)

	2015						
	Cap	Non-Capitals			Caps x Non-Caps		
		Mean	SD	Max	Min	+/- (%)	Rank
High Performers							
Curitiba (PR)	14.4	11.6	5.0	24.8	1.7	25	74
B. Horizonte (MG)	12.4	12.1	5.2	25.0	1.1	3	56
Similar Performance							
São Paulo (SP)	12.3	13.0	5.4	24.9	0.6	-6	51
Porto Alegre (RS)	7.5	9.4	4.7	24.4	0.4	-21	38
Belém (PA)	14.2	9.5	5.3	24.9	1.6	49	84
Low Performers							
Rio de Jan. (RJ)	12.4	11.0	4.9	23.5	2.3	13	68
Recife (PE)	7.9	9.6	3.7	23.9	1.0	-18	34
Fortaleza (CE)	4.0	9.7	3.6	23.1	1.7	-58	6
Manaus (AM)	4.7	9.5	5.8	24.9	0.1	-51	16
Salvador (BA)	4.6	8.5	4.8	24.8	0.2	-46	20
Goiânia (GO)	3.1	11.4	5.0	25.0	1.7	-73	2
Sample	8.9	10.9	5.2	25.0	0.1	-19	
Brazil	9.3	10.5	5.1	25.0	0.1	-12	

Cap = Capital City, SD = Standard Deviation, +/- (%)=Difference in PSSD provision in percentage, Rank= Capital city PSSD rank within all municipalities in the state (percentile)

Source: Authors' calculation based on SIA/SUS (2018), ANS (2018), and IBGE (2018).

A.2.1 - Ratio of Primary Services to SUS Dependents in Large Capital Cities and States, 2000-2017 (Expanded)

	2017						
	Cap	Non-Capitals			Caps x Non-Caps		
		Mean	SD	Max	Min	+/- (%)	Rank
High Performers							
Curitiba (PR)	10.9	10.8	5.4	24.5	0.5	1	56
B. Horizonte (MG)	14.7	9.7	5.2	25.0	0.2	51	82
Similar Performance							
São Paulo (SP)	12.0	12.0	5.4	24.8	0.6	0	55
Porto Alegre (RS)	5.5	7.4	4.2	24.7	0.1	-26	37
Belém (PA)	5.9	7.6	4.5	25.0	0.8	-22	43
Low Performers							
Rio de Jan. (RJ)	10.8	8.1	4.6	20.6	0.2	34	69
Recife (PE)	5.3	6.4	3.4	24.1	0.4	-18	37
Fortaleza (CE)	7.6	7.7	4.1	24.5	1.0	-1	61
Manaus (AM)	4.9	6.2	4.8	23.2	0.1	-22	49
Salvador (BA)	4.0	6.0	4.0	23.1	0.1	-33	35
Goiânia (GO)	2.3	9.0	5.5	25.0	0.9	-75	6
Sample	7.6	8.9	5.2	25.0	0.1	-15	
Brazil	7.2	8.6	5.1	25.0	0.1	-17	

Cap = Capital City, SD = Standard Deviation, +/- (%)=Difference in PSSD provision in percentage, Rank= Capital city PSSD rank within all municipalities in the state (percentile)

Source: Authors' calculation based on SIA/SUS (2018), ANS (2018), and IBGE (2018).

A.2.1 - Ratio of Primary Services to SUS Dependents in Large Capital Cities and States, 2000-2017 (Expanded)

	<i>Average 2000-2017</i>					
	<i>Capitals</i>		<i>Non-Capitals</i>		<i>Caps x Non-Caps</i>	
	<i>Mean</i>	<i>SD</i>	<i>Mean</i>	<i>SD</i>	<i>+/- (%)</i>	<i>Rank</i>
High Performers						
Curitiba (PR)	13.1	3.0	10.6	4.4	23	69
B. Horizonte (MG)	12.7	2.3	10.0	4.9	27	72
Similar Performance						
São Paulo (SP)	10.6	3.1	11.4	4.9	-8	43
Porto Alegre (RS)	7.8	1.7	7.2	4.2	9	63
Belém (PA)	7.1	3.0	8.4	4.7	-16	39
Low Performers						
Rio de Jan. (RJ)	6.6	3.0	10.2	4.8	-35	22
Recife (PE)	6.6	1.3	8.0	3.4	-18	40
Fortaleza (CE)	5.1	1.4	8.5	3.9	-40	26
Manaus (AM)	5.0	0.7	7.1	5.2	-30	40
Salvador (BA)	4.6	0.8	7.7	4.2	-41	21
Goiânia (GO)	2.9	0.8	10.4	4.9	-72	3
Sample	7.5	3.8	9.4	4.8	-21	
Brazil	8.2	4.2	9.2	4.7	-10	

Cap = Capital City, SD = Standard Deviation, +/- (%)=Difference in PSSD provision in percentage, Rank= Capital city PSSD rank within all municipalities in the state (percentile)

Source: Authors' calculation based on SIA/SUS (2018), ANS (2018), and IBGE (2018).