

Confidence in Justice and Experience with Court: Evidence from Brazil

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Abstract

Although there is a literature that relates the determinants of confidence in justice and use of judicial, there is a gap on the causal relationship between these two variables. The purpose of this paper is to examine the causal relationship between confidence in justice and use of judicial in Brazil. To address this issue, we construct measures of the extent to which the main newspapers report government corruption in their front page during the period 2010-2013 distributed by the states: Minas Gerais, Pernambuco, Rio Grande do Sul, Bahia, Rio de Janeiro, São Paulo and Distrito Federal. By examining how confidence in justice affects propensity to use the judicial, we use instrumental variable approach: IV Probit. We use the news of corruption (front page coverage of corruption) as instrumental variable. Confidence in justice is the variable instrumentalized. Our results are based on four surveys conducted along 2010, 2011, 2012 and 2013. We created the Brazilian Confidence in Justice Index (BCJI) as a validity argument for our confidence measure. The results show that confidence in justice has a positive impact on use of judicial. People who have higher levels of confidence in justice have a greater propensity to use the judicial. We also find that there is a positive relationship between confidence in justice and use of judicial for some demographic variables such as income, education, age and race.

Keywords: Confidence in Justice, Institutions, Judicial

JEL classification: K11, K30, K40

1 –Introduction

Several studies have analyzed the determinants of confidence in justice. Lawrence (2001) shows that women have lower levels of confidence in justice than men. Sherman (2002) shows that there are clear racial divisions of opinion about the criminal justice system's component institutions, though not about the system as a whole. He shows that whites have twice as much confidence in their local court systems than blacks. In measures of confidence in courts, race is again a factor that shows a big difference of opinion. Bennack (1999) find that people with higher incomes and more education reported greater confidence in most of the institutions examined. Jones, Weatherburn, and McFarlane (2008) find that confidence in the criminal justice system was generally find to be more prevalent among younger people, those who are better educated, and those on higher incomes.

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They also find that respondents who earned higher annual incomes were more confident that the justice system is effective in bringing people to justice, meeting the needs of victims, respecting the rights of the accused and treating the accused fairly.

There is also a literature that relates use of judicial with levels of confidence in justice. Benesh (2006) examines the potential effects of experience, perceptions of procedure, and institutions on confidence. She shows that a highly educated individual with experience as a juror and a strong understanding of the court system, who has a high level of baseline confidence in the institutions of government, and who lives in a state where judges are appointed and the crime rate is low will demonstrate the highest levels of confidence in state courts. On the other hand, a person without much formal education, who had been a defendant at least once in his or her life and does not consider him or herself to be informed about courts, who does not much trust the institutions of government and happens to live in a state with elected judges and a high crime rate will have the lowest levels. Benesh and Howell (2001) show that people who use the court assess that it does a good job. However, those who are not users claim it does a good job. The results find for the non-users can be related to more general factors of justice. Therefore, the concrete experience makes the reviews on the judiciary more outspoken.

The purpose of this paper is to examine the causal relationship between confidence in justice and use of judicial. Although there is a vast literature on confidence in justice, there is a gap on the causal relationship between these two variables. We used the Brazilian Confidence in Justice Index (BCJI) as a validity argument for our confidence measure. The BCJI is a measure of perception, which shows the opinion of the population about the confidence in justice. We seek to identify the direction of causality between confidence in justice and use of judicial. Perhaps respondents' perceptions of the prevalence of confidence in justice drive their propensity to use the judicial, but just as plausibly the opposite could be true: individuals who lack propensity to use the judicial might, as a result, express low levels of confidence in justice. We address concerns about endogeneity in two ways. However, it remains strongly significant, supporting our claim of a plausibly causal effect running from confidence in justice to propensity to use the judicial. To address this issue, we construct measures of the extent to which the main newspapers report government corruption in their front page during the period 2010-2013 distributed by the states: Minas Gerais, Pernambuco, Rio Grande do Sul, Bahia, Rio de Janeiro, São Paulo and Distrito Federal. We used news of corruption because the media plays an important role in modern democracies, thus it provides a significant proportion of the information for citizens. By examining how confidence in justice affects propensity to use the judicial, we use instrumental variable approach: IV Probit. We use the news of corruption (front page coverage of corruption) as instrumental variable. Confidence in justice is the variable instrumentalized.

We used two measures of use of judicial: 1) we consider all the people who have had experience with the justice; 2) we consider only the cases in which people went to justice by option. Analyze these two measures is important because in some cases people need to use the judicial independent of their level of confidence in justice. We find that confidence in justice has a positive impact on use of judicial. People who have higher levels of confidence in justice have a greater propensity to use the judicial. We also find that there is a positive relationship between confidence in justice and use of judicial for some demographic variables such as income, education, age and race. We also performed the same tests using the question of confidence in the justice instead of the index of confidence in justice (BCJI) that is calculated as the average from a set of nine questions covering the main aspects of confidence in justice. We find again that confidence in justice has a positive impact on use of judicial. One possible explanation for these results is that people can perceive the justice as a legitimate way to seek solution to their problems and would not hesitate to go to justice to solve their conflicts. Levasseur (2002) shows that, when the judiciary has the public trust, it has legitimacy and enables the consolidation of the rule of law.

The paper proceeds as follows. Section 2 describes the data set and the methodology. Section 3 discusses the news of corruption and confidence in justice. Section 4 discusses the results. Section 5 concludes the paper.

2 - Methodology and Sample

Our results are based on four surveys conducted along 2010, 2011, 2012 and 2013. These surveys were obtained through telephone contact during the period of thirty-three months. Our sample consists of 4,685 respondents in 2010, 6,213 in 2011, 6,049 in 2012, and 4,525 in 2013 distributed by the states: Minas Gerais, Pernambuco, Rio Grande do Sul, Bahia, Rio de Janeiro, São Paulo and Distrito Federal, which together represent approximately 60% of the population, according to the Brazilian Institute of Geography and Statistics (IBGE) census of 2010. Table 1 provides an overview of the sample.

Table1. Sample Description

The sample is distributed through 7 states, which together represent approximately 60% of the country's population, according to census data. The sample size was determined by the number of inhabitants in each state. The informant is an individual who represents the selected household, of any gender (male or female) and is 18 years old. The sampling frame was constructed to take the range of 95% and absolute sampling error of 2.5%. Interviews were conducted via telephone.

States	Population	Sample			
		2010	2011	2012	2013
São Paulo	37.035.456	1691	2252	1614	1052
Minas Gerais	17.905.134	810	1089	1164	898
Rio de Janeiro	14.392.106	662	867	818	599
Bahia	13.085.769	599	793	792	603
Rio Grande do Sul	10.187.842	463	609	607	462
Pernambuco	7.929.154	362	476	572	453
Distrito Federal	2.051.146	95	127	482	458
Total	102.586.606	4682	6213	6049	4525

The BCJI is calculated as the average from a set of nine questions covering the main aspects of confidence in justice. The respondent must issue his opinion on the justice regarding: confidence; speed in solving conflict; cost access; ease of access; political independence; honesty; ability to solve conflicts; panorama of the last 5 years and expectation for the next 5 years. Each question has the same weight within the index. The BCJI has a range between 0 and 10. For each question, we use the weighted average of responses. Thus, to compute weighted average of first question about confidence in justice we used four response categories that include: 1 = Not at all confident, 2 = Not very confident, 3 = Fairly confident and 4 = very confident. Thus, to compute the BCJI, we sum all 9 questions, and then divide by 9.

Table 2. Describes the BCJI and their Components

The questions that form the questionnaire have four or five responses. Each question is identified by assigning an index n to its response, which also corresponds to a value assigned to that response. Thus, the first response, ie, the answer 0, is assigned the value 0. To the last response is assigned the value max, which can be 3 or 4, depending on whether the question has four or five possible responses. Therefore $n = 0, 1, 2, 3$ or $n = 0, 1, 2, 3, 4$. The answer's n of question q is called nq . The value that is attributed to nq is n , so the value $(nq) = n$. For example, the response 0 (or first response) of the question $q = 2$, ie, value $(02) = 0$. Then, values are weighted according to the proportion of people who chose that response.

BCJI	Weighted Average				
	2010	2011	2012	2013	All Years
P1 Confidence	4.10	4.61	4.38	4.11	4.33
P2 Speed in solving conflicts	1.99	1.99	1.91	1.87	1.94
P3 Costs access	4.62	4.61	4.80	4.57	4.66
P4 Ease of access	2.18	2.27	2.25	2.25	2.24
P5 Political independence	3.40	3.55	3.65	3.40	3.51
P6 Honesty	4.10	4.01	4.16	3.95	4.06
P7 Ability to solve conflicts	4.22	4.43	4.46	4.18	4.34
P8 Panorama of the last 5 years	5.91	5.86	5.85	5.58	5.81
P9 Expectation for the next 5 years	7.22	7.52	7.30	7.27	7.26

Table 3 presents basic statistics of the BCJI for each year. We can see that the BCJI has not changed between 2010 and 2013. Institutions change over time, but they are path-dependent because individuals learn, organizations develop, and ideologies form in the context of a particular set of formal and informal rules (North, 1990). North's view, institutional change is generally incremental rather than sudden, an accumulation of many small changes rather than occasional large changes. It is therefore natural that the index does not change in the short term. Although the BCJI has not changed, there are important differences between a pool of demographic and economic variables as race, income, age, gender, labor education, experience with the justice and knowledge on the judicial.

Table 3. Descriptive statistics for BCJI

Descriptive statistics for BCJI in 2010, 2011, 2012 and 2013. The BCJI is calculated as the average from a set of nine questions covering the main aspects of confidence in justice: Confidence (P1); Speed in solving conflicts (P2); Cost access (P3); Ease of access (P4); Political independence (P5); Honesty (P6); Ability to solve conflicts (P7); Panorama of the last 5 years (P8) Expectation for the next 5 years (P9).

Weighted Average	Std. Dev.	Min.	Max.
2010			
4.19	1.24	0.25	8.70
2011			
4.29	1.31	0.25	9.07
2012			
4.31	1.30	0.25	9.35
2013			
4.13	1.32	0.25	9.07
All Years			
4.23	1.30	0.25	9.35

3- News of Corruption and Confidence in Justice

The well-functioning public institutions play an important role in economic development and public trust. A key variable in the effectiveness and legitimacy of public institutions is the confidence that they inspire among those whom they serve. However, in many nations, confidence in government, justice and other institutions has declined over time. People who have low levels of confidence in justice, for example, may fail to seek justice to resort to other informal means to resolve their conflicts.

There is a substantial literature that explores the relationship between the variation in perceptions of corruption and confidence in public institutions. Stulhofer (2004) finds that perceptions of corruption in Croatia have a negative correlation with generalized trust. Pharr (2000) shows that low levels of confidence in justice over time are caused by scandals relentlessly covered in the media. He shows that society has reacted to corruption by losing trust in public institutions. Examples of corruption scandals involving public officials are stories that are shown daily in modern mass media (Rose-Ackerman, 1999). Seligson (2002) used survey data for four Latin American countries to test the effects of corruption experiences on perceptions of the legitimacy of the political system at the individual level. He shows that exposure to corruption erodes belief in the political system and reduces interpersonal trust. Clausen, Kraay and Nuri (2011) show that individuals who experience corruption and who report that corruption is widespread also tend to have lower confidence in public institutions.

They also show that this correlation is robust to the inclusion of a large intended to capture the respondent's tendency to complain or report more negatively on corruption and confidence than might otherwise set of variables to control for respondent-level characteristics, including a number of proxies be objectively warranted. Uslaner (2004) shows that societies with more trust and less corruption have better governance, stronger economic growth, spend more on redistribution, and have greater respect for the law among the citizenry. Rothstein (2000) argues that people are not likely to lose faith in others just because they have venal politicians. However, when the legal system fails to punish transgressors, be they other citizens or political leaders, people will no longer feel quite so warm toward their fellow citizens. Tyler (1990) argues that people respect the law because they believe that the justice system is fair and that they have been treated fairly. Lambsdorff (1999) argues that the key to less corruption and more trust is an effective system of property rights and the rule of law. If the law is enforced on fair grounds, then people will be more likely to obey the law and confidence in the judicial system will be higher. However, if people feel they are treated unfairly, so they rely less on justice and will be less likely to obey the laws. Hellman and Kaufmann (2004) show that firms who perceive a great deal of crony bias in policymaking have less confidence in justice, are less likely to use courts, are more likely to pay bribes, and are more likely to cheat on their taxes.

In this paper, what we do differently from other papers is that we seek to identify the direction of causality between confidence in justice and use of judicial. Perhaps respondents' perceptions of the prevalence of confidence in justice drive their propensity to use the judicial, but just as plausibly the opposite could be true: individuals who lack propensity to use the judicial might, as a result, express low levels of confidence in justice. To address this issue, we construct measures of the extent to which the main newspapers report government corruption in their front page during the period 2010-2013 distributed by the states: Minas Gerais, Pernambuco, Rio Grande do Sul, Bahia, Rio de Janeiro, São Paulo and Distrito Federal. Figure 1 shows the front page of one day and illustrates how Front Pages is constructed. By examining how confidence in justice affects propensity to use the judiciary, we use instrumental variable approach: IV Probit. We use the news of corruption (front page coverage of corruption) as instrumental variable. Confidence in justice is the variable instrumentalized. Brehm and Rahn (1997) show that a respondent's general feelings toward government exert influence over social trust. Thus, we control for confidence in the national government.

We also control for gender, race, income, education, age in years and its squared term, all of which have been shown to influence in confidence in institutions (Brehm & Rahn, 1997). Given that our data are clustered by states, any effect arising from state-level clustering can be corrected by way of robust standard errors.

Figure 1: Front Page O Globo 19th May, 2011. The construction of Front Pages involves adding for a particular newspaper and for a particular month the fraction of each front page in the month devoted to covering corruption scandals. Here, we considered Area (News) / (Total Area) as the contribution of May 19th to the measurement of Front Pages for O Globo in May 2011.



News

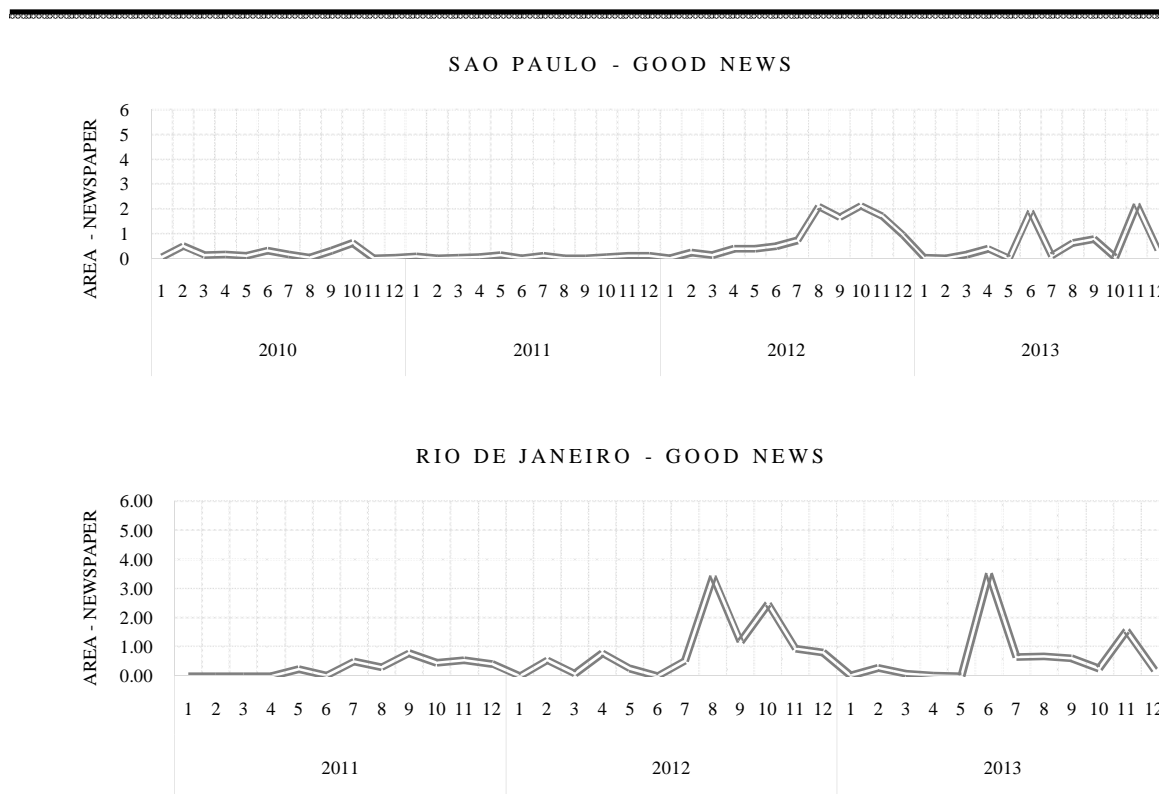


Determined to avoid, at any cost, the convening of the Minister Antonio Palocci (Casa Civil) to testify about increasing your equity, the government worked hard yesterday: paralyzed the work of committees, canceling sessions, and prevented the Commission Financial Regulation and Control voted requirements opposition.

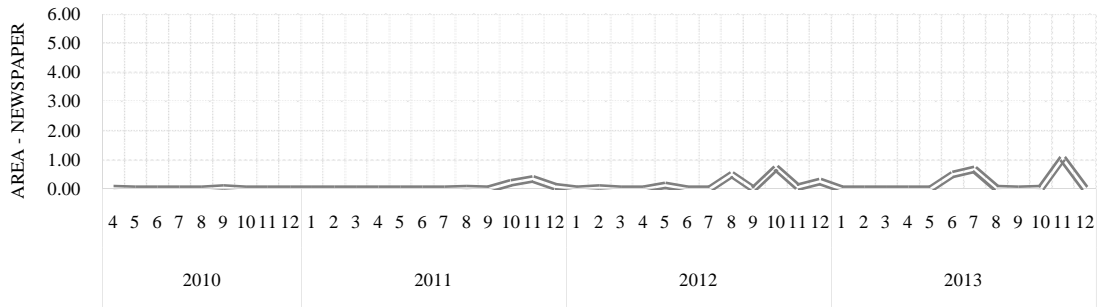
Figure 2 shows the evolution of “good news” of corruption overtime. The “good news” are the arrest, condemnation or dismissal of corrupt people. The news is not stable overtime. There is difference between years and States. In some States, we could not to access old news of corruption. Thus, we have different periods in each State. Pernambuco, Rio Grande do Sul and Minas Gerais have low level of news of corruption. However, São Paulo, Rio de Janeiro and Distrito Federal have high level of news of corruption. The difference between these States may be related to the political influence that São Paulo, Rio de Janeiro and Distrito Federal have in Brazilian government.

In 2012, several newspapers covered the “mensalão” scandal that is a Portuguese neologism roughly meaning “big monthly stipend” was coined to describe clandestine payments made to congressional allies in return for support for its legislative agenda. The scandal broke in 2005 when the president of an allied party claimed in a newspaper interview that the Workers’ Party (PT) was paying several congressmen \$12,000 a month. In the last quarter of 2012, the Supreme Court defined throughout the trial that sentenced 25 people in total; including politicians, businessmen and bankers who had ties to the corruption scandal that threatened to bring down Lula’s government back in 2005.

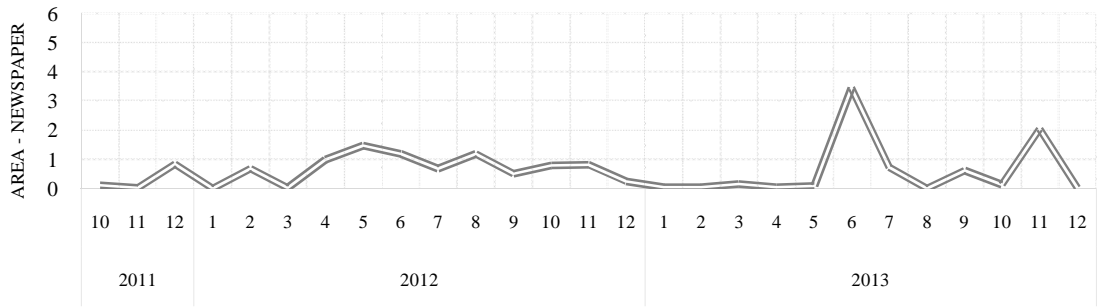
Figure 2. Evolution of “good news” (front pages) of corruption per month distributed by the states: São Paulo, Rio de Janeiro, Pernambuco, Distrito Federal, Minas Gerais and Rio Grande do Sul. The graphs show the amount of good news of corruption in the period analyzed.



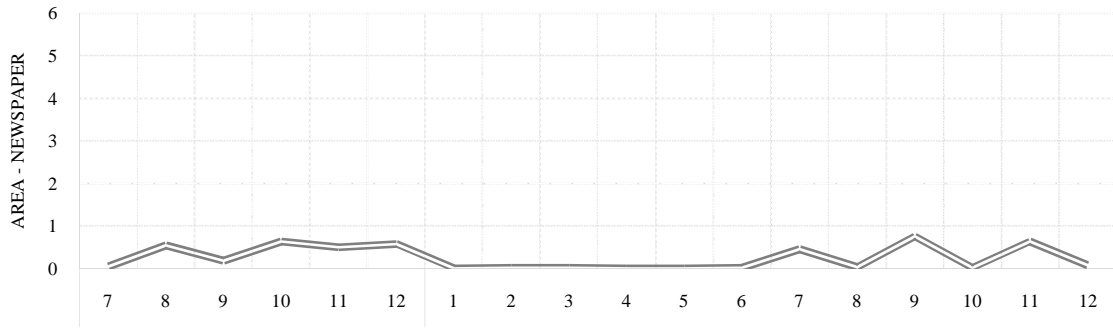
PERNAMBUCO - GOOD NEWS



DISTRITO FEDERAL - GOOD NEWS



MINAS GERAIS - GOOD NEWS



RIO GRANDE DO SUL - GOOD NEWS

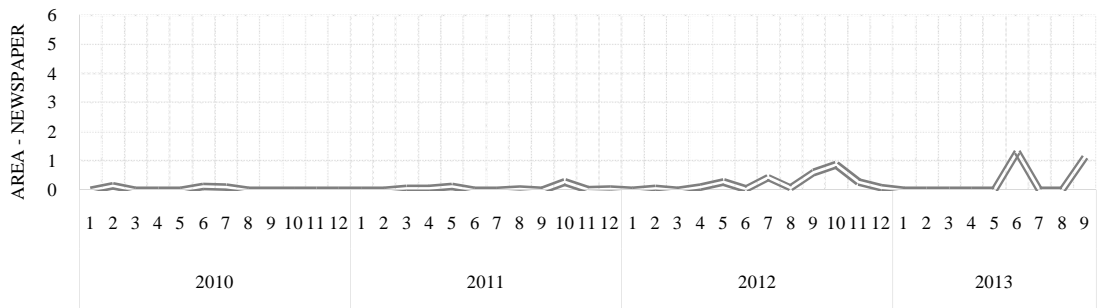
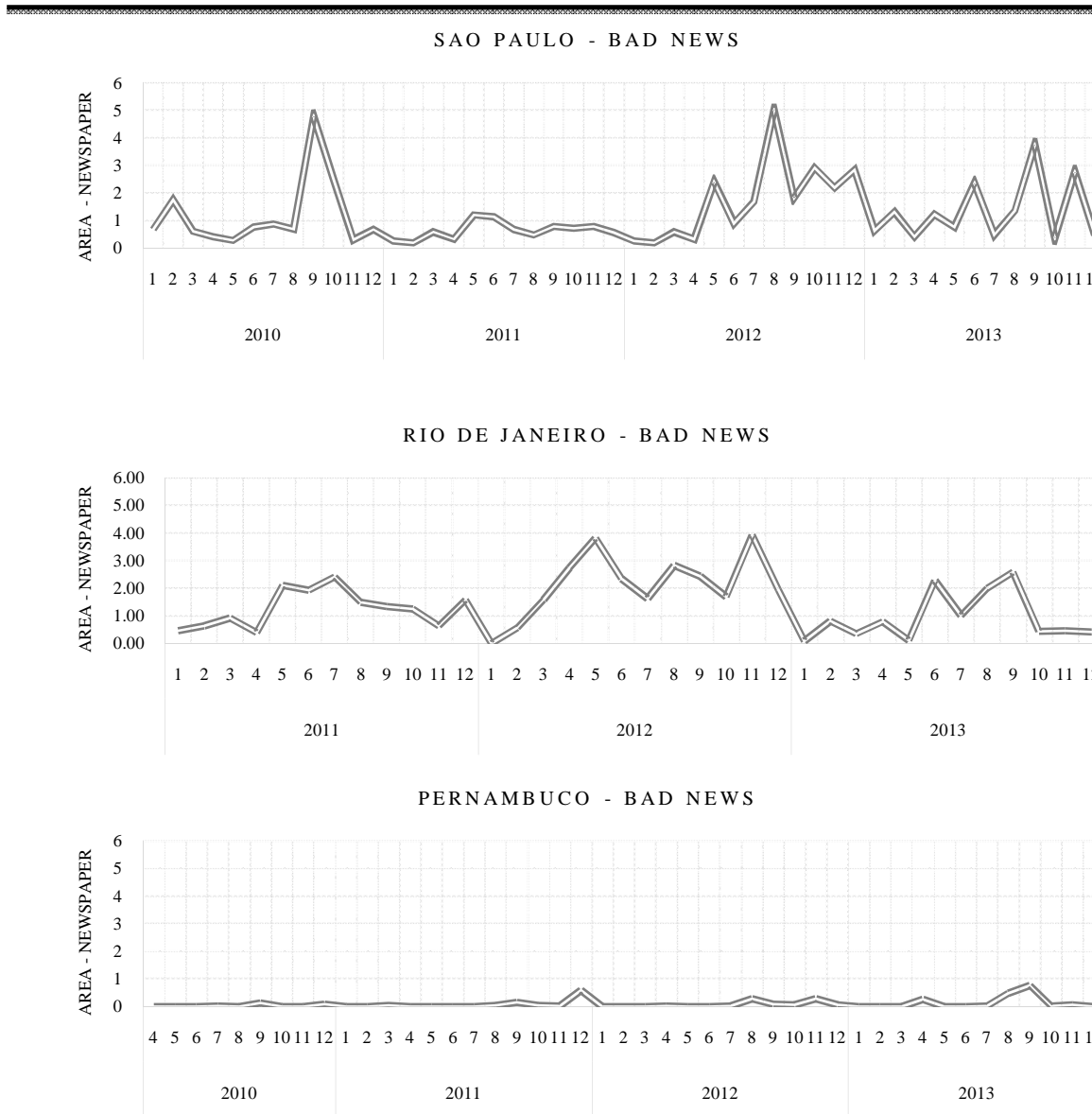
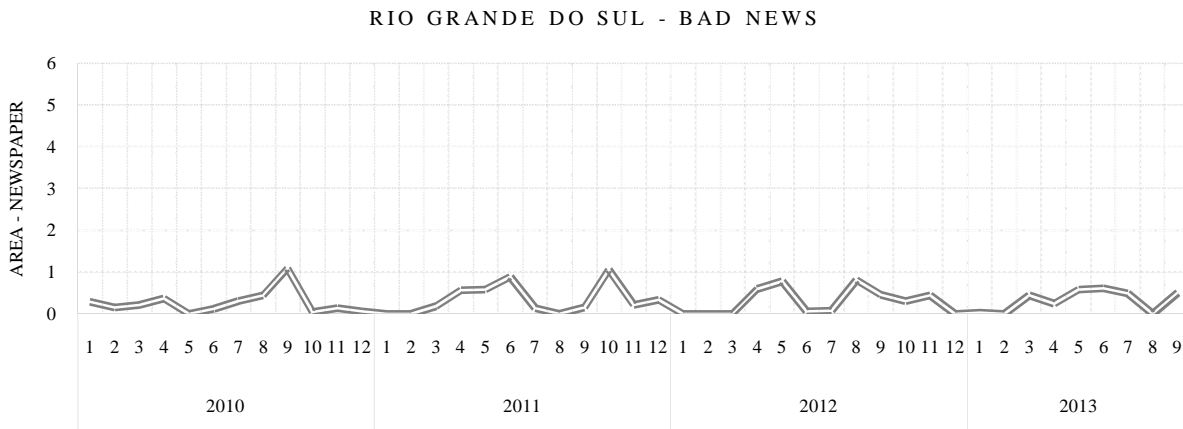
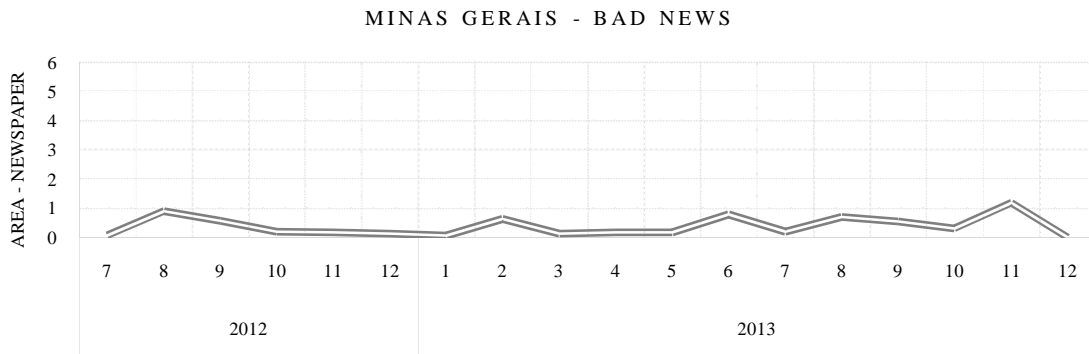
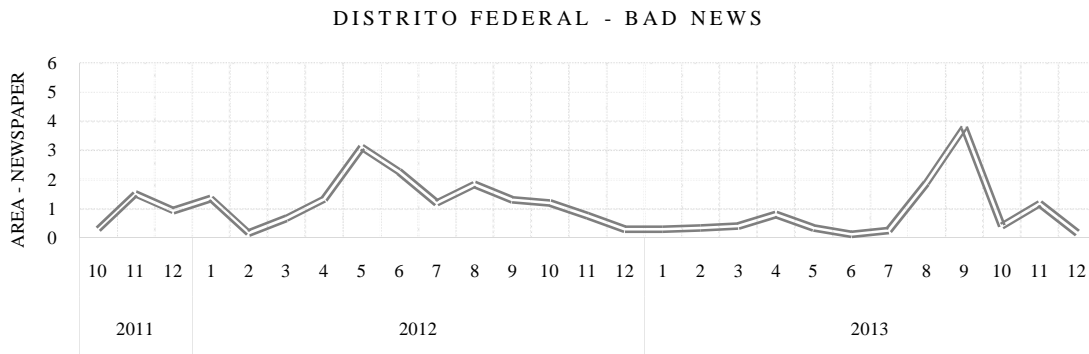


Figure 3 shows the evolution of “bad news” of corruption overtime. The “bad news” is: impunity of corrupt people, corruption scandals and fraud. In general, most news of corruption are related to “bad news” that is a problem constant in the Brazilian political system, with many cases apparent at the federal, state, and municipal levels. Booth and Seligson (2009) shows that perceptions of corruption are strongly and negatively related to regime legitimacy. One way to measure this is through legitimacy of the motivations that lead citizens to trust or not in judicial. Thus, we expect that there is a negative impact of bad news of corruption on confidence in justice.

Figure 3. Evolution of “bad news” (front pages) of corruption per month distributed by the states: São Paulo, Rio de Janeiro, Pernambuco, Distrito Federal, Minas Gerais and Rio Grande do Sul. The graphs show the amount of bad news of corruption in the period analyzed.





The table 4 shows that the mean for bad news of corruption is greater than good news of corruption. There are 2251 news in our data base that appear in front pages. There are 568 “good news” and 1683 “bad news”. São Paulo has the highest number of corruption news. The biggest newspaper in Brazil is there. The number of “good news” in São Paulo is 214 and the number of “bad news” is 801. However, some news are not local news but national news, for example, the scandal of corruption “Mensalão”. São Paulo, Rio de Janeiro and Distrito Federal have many news of corruption. The means per month of “good news” are 0.43, 0.62 and 0.62, respectively. The means per month of “bad news” are 1.22, 1.44 and 1.05, respectively.

Sometimes, there is overlap between “good” and “bad news” of corruption. Thus, we develop three measures of the intensity of coverage of corruption scandals by newspapers.

The variable of “bad news” was constructed to the total amount of front page space devoted to covering corruption cases in month *m*, in newspaper *n*. We performed the same calculation for the variable of “good news”. Due to the overlap, we created a new variable that is the difference between bad and good news.

Table 4. Descriptive statistics for Good and Bad News of Corruption

Descriptive statistics for good news of corruption to which the newspapers report government corruption in their front page during the period 2010-2013 distributed by the states: Minas Gerais, Pernambuco, Rio Grande do Sul, Rio de Janeiro, São Paulo and Distrito Federal.						
Panel A. "Good News" of Corruption						
	Obs. (#)	Mean	Median	Std. Dev.	Min.	Max.
São Paulo	214	0.43	0.14	0.63	0.00	2.17
Rio de Janeiro	118	0.62	0.35	0.87	0.00	3.51
Pernambuco	33	0.11	0.00	0.23	0.00	1.06
Distrito Federal	113	0.62	0.50	0.78	0.00	3.45
Minas Gerais	47	0.25	0.06	0.29	0.00	0.75
Rio Grande do Sul	43	0.14	0.00	0.29	0.00	1.30
Panel B. "Bad News" of Corruption						
São Paulo	801	1.22	0.74	1.16	0.19	5.00
Rio de Janeiro	359	1.44	1.41	1.03	0.00	3.93
Pernambuco	41	0.08	0.00	0.16	0.00	0.76
Distrito Federal	267	1.05	0.80	0.92	0.14	3.79
Minas Gerais	86	0.38	0.19	0.34	0.01	1.19
Rio Grande do Sul	129	0.31	0.22	0.30	0.00	1.09

4 – Results

Table 1 shows the results related with confidence in justice and use of judicial. In column (1) the dependent variable is the use of judicial. It is a binary variable that takes the value 1 if the respondent already had experience with the justice. In column (2) we used the same specification, but now the dependent variable considers only cases where people went to court by option. Thus, the cases in which people had to go to court by necessity were not considered, such as: contested divorce; addition formal sharing; interdiction special person; request retirement for reasons of health and disability, burglary, property embargoed; automobile accident with fatality; eviction; dissolution litigious society; precatory; contesting certificate and rectification name. In columns (1) and (2), we used bad news of corruption as instrumental variable. We used also the Brazilian Confidence in Justice Index (BCJI) as a validity argument for our confidence measure. The result shows that confidence in justice has a positive impact on use of judicial. Although in column (1) the result is not statistically significant, in column (2) where we use only the cases in which people went to justice by option, the result is statistically significant at 5%. The advantage of column 2 is that the dependent variable is a cleaner measure of use of judicial.

In columns (3) and (4) we performed the same tests using “good news” of corruption as instrumental variable. In column (3) the result is statistically significant, but in column (4) it is not. Although the results of good news in the first stage may be strangers is important to note that “good” and “bad news” of corruption are sometimes simultaneous. That is, a newspaper may have good and bad news of corruption on the same day. The negative result of the variable “good news” of corruption may be related to the volume of “bad news” that appeared in the same period. The table 4 shows that the volume of “bad news” is greater.

The average for “bad news” is 0.75, while the average for “good news” is 0.36. However, the column (3) shows that there is a positive relationship between confidence in justice and use of judicial.

In columns (5) and (6) we used the balance of “bad news” minus “good news” of corruption as instrumental variable. In both (5) and (6) the results are not statistically significant. This result may be related to the overlap of “bad” and “good news”. Thus, by making the difference between “bad” and “good news”, the result can be greatly weakened. However, our results show that for “bad news” there is a positive impact of confidence in justice on the propensity to use the judicial. This result contributes to the literature that explores the relationship between experience with the judicial and confidence in public institutions. We also find that there is a positive relationship between confidence in justice and use of judicial for some demographic variables such as income, education, age and race. People with more years of education and income have a greater propensity to seek justice. Older people and blacks also have a greater propensity to seek justice. However, Sampaio, De Losso and Cunha (2013) shows that blacks have lower levels of confidence in justice compared to whites. For them, the justice is expensive and less honest. One possible explanation for these results is that people can perceive the justice as a legitimate way to seek solution to their problems.

Table 5 - Determinants of the use of justice Index - IV PROBIT Regression

	Use of Justice (1)	Use of Justice (optional) (2)	Use of Justice (3)	Use of Justice (optional) (4)	Use of Justice (5)	Use of Justice (optional) (6)
BCJI	-0.0244 (-1.04)	0.5350** (2.22)	0.4497* (1.90)	-0.0059 (-0.02)	-0.0274 (-1.17)	-0.0237 (-1.00)
Confidence in the Federal Government	-0.0561* (-1.84)	-0.4845*** (-2.78)	-0.4228** (-2.41)	-0.0702 (-0.23)	-0.0537* (-1.76)	-0.0560* (-1.82)
Female	-0.0536** (-2.33)	-0.0655 (-1.07)	-0.0090 (-0.25)	-0.1444*** (-3.86)	-0.0535** (-2.33)	-0.1457*** (-6.32)
Black	0.0906** (2.49)	0.0699* (1.90)	0.0855** (2.33)	0.0771** (2.05)	0.0906** (2.49)	0.0766** (2.10)
Age	0.0453*** (11.79)	0.0383*** (4.95)	0.0451*** (6.76)	0.0396*** (5.19)	0.0453*** (11.82)	0.0393*** (10.13)
Age squared	-0.0005*** (-10.56)	-0.0003*** (-3.66)	-0.0004*** (-5.06)	-0.0004*** (-6.85)	-0.0005*** (-10.58)	-0.0004*** (-9.08)
From 2 until 4 minimum wages	0.0390 (0.99)	0.0300 (0.65)	0.0152 (0.37)	0.0681 (1.61)	0.0398 (1.01)	0.0688* (1.72)
From 4 until 12 minimum wages	0.1612*** (3.81)	0.1227* (1.76)	0.1196** (2.12)	0.1870*** (4.24)	0.1619*** (3.83)	0.1875*** (4.37)
More than 12 minimum wages	0.1986*** (4.16)	0.1824* (1.83)	0.1404** (2.05)	0.2841*** (5.50)	0.1993*** (4.18)	0.2850*** (5.92)
Education	0.0271*** (10.77)	0.0162 (1.59)	0.0180** (2.27)	0.0285*** (6.73)	0.0271*** (10.80)	0.0286*** (11.43)
Knowledge of justice	0.1366*** (4.43)	-0.0362 (-0.41)	0.0079 (0.09)	0.1129 (1.26)	0.1376*** (4.47)	0.1168*** (3.74)
Log pseudolikelihood	-30951.1***	-30840.1***	-30948.6***	-30840.0***	-30953.2***	-30843.4***
Observations	13,413	13,413	13,413	13,413	13,413	13,413
First Stage IV Results						
Bad News	-0.0139** (-2.06)	-0.0138** (-2.06)				
Good News			-0.0202*** (-2.76)	-0.0202*** (-2.76)		
Balance of Bad News minus Good News					0.0014 (0.22)	0.0014 (0.22)
Wald test of exogeneity:chi2 (1)	4.83**	4.96**	2.75*	2.25	1.27	1.54
(p-value)	0.023	0.021	0.085	0.112	0.136	0.123

Table 2 shows also the results related with confidence in justice and use of judicial. However, we use the question of confidence in the justice instead of the index of confidence in justice (BCJI). The BCJI is calculated as the average from a set of nine questions covering the main aspects of confidence in justice, such as: confidence; speed in solving conflict; cost access; ease of access; political independence; honesty; ability to solve conflicts; panorama of the last 5 years and expectation for the next 5 years. Now, we used only one question about confidence in justice. One problem in describing public confidence in justice is that it is multifaceted. According to Staats, Bowler and Hiskey (2005) judicial performance is a multidimensional concept. Therefore, we used two measures of confidence in justice to give more robustness to our results. The first is the index that is a multidimensional measure. The second is the question of confidence in justice that capture directly the levels of confidence in the justice of respondents.

The result shows again that confidence in justice has a positive impact on use of judicial. In both columns (1) and (2) the results are statistically significant at 1% and 5%, respectively. The results for the first stage are also statistically significant. That is, the “bad news” of corruption have a negative relationship with confidence in justice. In column (3) the result also is statistically significant, but in column (4) it is not. Just as in Table 1, we have a negative impact of variable “good news” of corruption on confidence in justice. This result should be related to the volume of “bad news” of corruption that occurred in that period. Finally, we analyze the impact of confidence in justice on propensity to use the judicial using the balance of “bad news” minus “good news” of corruption as instrumental variable. In both (5) and (6) the results are not statistically significant.

The results using news of corruption as instrumental variable can be explained due to two factors. The first is that justice is one of the few alternatives that people have to resolve their conflicts. In this case, confidence in justice would have a marginal effect on the propensity to use the judicial. The second is that the news is information that people have about things that are not necessarily connected with them, for example, news of corruption. People have opinions on public services, despite not having experience with some of these services. This perception can be developed for the information transmitted by the media and by the knowledge that they have about that public service. Thus, the impact of news of corruption on confidence in justice can even exist, but this may be temporary and marginal. However, when we use news of corruption we have that the exclusion restriction is given by the fact that news affect the confidence in the justice but not the propensity to use the judicial. A valid instrument must have two properties: 1) it is (partially) correlated with the endogenous treatment variable, confidence in justice; 2) it is uncorrelated with the dependent variable, use of judicial, other than through its correlation with confidence in justice. Thus, we have that news of corruption affect the use of judicial only indirectly, through their correlations with confidence in justice.

Table 6 - Determinants of the use of justice Index - IV PROBIT Regression

	Use Justice	Use of Justice (optional)	Use of Justice	Use of Justice (optional)	Use of Justice	Use of Justice (optional)
BCJI	0.2479*** (3.24)	0.1659** (2.67)	0.1810* (1.66)	-0.0017 (-0.01)	-0.0061 (-0.22)	-0.0063 (-0.23)
Confidence in the Federal Government	-0.3575*** (-4.18)	-0.2665** (-2.34)	-0.2841** (-2.29)	-0.0727 (-0.45)	-0.0681* (-1.67)	-0.0673 (-1.63)
Female	-0.0329 (-1.41)	-0.1265*** (-4.50)	-0.0398 (-1.63)	-0.1441*** (-6.01)	-0.0519** (-2.26)	-0.1444*** (-6.25)
Black	0.1027*** (3.01)	0.0897** (2.52)	0.1030*** (2.93)	0.0770* (1.96)	0.0906** (2.49)	0.0765** (2.10)
Age	0.0415*** (7.30)	0.0391*** (8.49)	0.0443*** (8.39)	0.0397*** (8.65)	0.0457*** (11.86)	0.0396*** (10.14)
Age squared	-0.0004*** (-6.61)	-0.0004*** (-7.55)	-0.0004*** (-7.50)	-0.0004*** (-8.44)	-0.0005*** (-10.68)	-0.0004*** (-9.15)
From 2 until 4 minimum wages	0.0083 (0.21)	0.0468 (1.11)	0.0180 (0.44)	0.0681 (1.62)	0.0393 (0.98)	0.0683* (1.67)
From 4 until minimum wages	120.1198*** (2.61)	0.1634*** (3.45)	0.1368*** (2.88)	0.1867*** (4.29)	0.1613*** (3.79)	0.1867*** (4.32)
More than 12 minimum wages	0.1330** (2.42)	0.2414*** (4.02)	0.1576*** (2.72)	0.2837*** (5.57)	0.1985*** (4.11)	0.2840*** (5.82)
Education	0.0112 (1.64)	0.0189** (2.56)	0.0164** (2.02)	0.0285*** (4.32)	0.0271*** (9.14)	0.0287*** (9.65)
Knowledge of justice	0.0380 (0.83)	0.0557 (1.16)	0.0680 (1.27)	0.1120** (2.27)	0.1331*** (4.18)	0.1131*** (3.50)
Log pseudolikelihood	-38680.5***	-38571.5***	-38685.7***	-38575.7***	-38694.7***	-38583.6***
Observations	13,414	13,414	13,414	13,414	13,414	13,414
First Stage IV Results						
Bad News	-0.0570*** (-4.85)	-0.0570*** (-4.85)				
Good News			-0.0567*** (-4.12)	-0.0567*** (-4.12)		
Balance of Bad News minus Good News					-0.0145 (-1.19)	-0.0145 (-1.19)
Wald test of exogeneity: chi2 (1)	6.72***	6.85***	3.95**	5.68**	1.35	1.45
(p-value)	0.009	0.007	0.074	0.012	0.134	0.129

5 – Conclusion

Although there is a vast literature that relates confidence in justice with the propensity to use the judiciary, there is a gap on the causal relationship between these two variables. The purpose of this paper was to examine the causal relationship between confidence in the justice and propensity to use the judiciary. To address this problem, we used the Brazilian Confidence in Justice Index (BCJI) as a validity argument for our confidence measure and news of corruption as instrumental variable. We seek to identify the direction of causality between confidence in justice and use of judicial.

We construct measures of the extent to which the main newspapers report government corruption in their front page during the period 2010-2013 distributed by the states: Minas Gerais, Pernambuco, Rio Grande do Sul, Bahia, Rio de Janeiro, São Paulo and Distrito Federal. Figure 1 shows the front page of one day and illustrates how Front Pages is constructed.

We find that confidence in justice has a positive impact on use of judicial. People who have higher levels of confidence in justice have a greater propensity to use the judicial. We also find that there is a positive relationship between confidence in justice and use of judicial for some demographic variables such as income, education, age and race. We also performed the same tests using the question of confidence in the justice instead of the index of confidence in justice (BCJI) and we again find the same results. People with more years of education and income have a greater propensity to seek justice. Older people and blacks also have a greater propensity to seek justice.

A possible explanation for these results may be due to justice that is one of the few alternatives that people have to resolve their conflicts. In this case, confidence in justice would have a marginal effect on the propensity to use the judicial. Moreover, news is information that people have about things that are not necessarily connected with them, for example, news of corruption. This perception can be developed for the information transmitted by the media and by the knowledge that they have about that public service. Thus, the impact of news of corruption on confidence in justice can even exist, but this may be temporary and marginal. However, our results have important implications for confidence in justice and use of judicial. Thus, it would be good if there were efforts to improve the determinants of confidence in justice. In order to assess the influence of other aspects on the use of judicial, more precise estimates and measures of confidence institutional are needed.

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