

Corruption Behavior And Access To Health Care services In Benin

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Abstract: This study aims at analyzing the effect of corruption behavior on access to health care services in Benin. The estimation of the Heckman selection model (1979), based on survey data from users of public hospitals in Benin, showed that corruption behavior facilitates access to health care for each health services applicant. But collectively, they slow down the normal functioning of health care services, create a congestion effect and increase the vulnerability of some public health centers users. The study recommends the establishment of monitoring mechanisms and an increase in sanctions for corruption behavior.

Key words: Access to healthcare services, institutions, corruption behavior, congestion effect selection model.

JEL code: D73, I18, O43.

I. Introduction

The public health center is an open place for health applicant and the only access to health care services (Geeraert and Rivollier, 2014). The health sector has become one of the pockets of corruption (EU Report, 2017). Corruption behavior in the health sector is a global problem, and its magnitude is significant in both rich and developing countries (TI, 2006, Rispel et al., 2015). Corruption is an illegal agreement for which the agent demands or accepts bribes in exchange for privileged access (Scott, 1972). Indeed, it results from the failure of institutions (Neron, 2014). Institutions are the rules of game, the norms established to regulate behavior and reduce transaction costs (North, 1990). In the presence of weak institutions, corruption appears as an alternative to circumvent established rules. Leff, (1964) and Lui (1985) defend this positive view of corruption, which states that it is an element to compensate for the dysfunction of institutions. Corruption is like oil that facilitates economic transactions (Leff, 1964). Corruption has long been presented as an element to compensate for the poor functioning of institutions. Thus, the work on corruption leads to the fact that, by improving efficiency, corruption would have positive effects on economic activity (Leff, 1964, Lui, 1985). Corruption makes it possible to overcome the rigidities imposed by governments that hinder investment and interfere with other economic decisions favorable to growth (Lavallée et al., 2008).

This idea, which supports the positive effect of corruption, is countered by authors who point out that corruption behavior leads to the inefficiency of the health system. Becker (1968) and Newhouse (1996) challenge this view by defending the principle of bilateral accountability among the actors of the health system. Corruption appears as a crime where responsibilities are shared between the corrupt user and the corrupt practitioner. Since access difficulties are usually the result of a rigid and inefficient bureaucracy, it is beneficial to stimulate it to gain speed and productivity (Leys, 1964). Rose-Ackerman, (2004) and Szende and Culyer (2006) support the idea that corruption increases utility costs, including significant economic costs that are difficult to observe (Dreher and Herzfeld, 2005, Gupta et al., 2000). Authors like Gaitonde (2016), Lewis (2007); Bardan (1997) and Cockcroft (2014) show that corruption has negative effects on the development of the health sector. These negative effects are related not only to barriers for users to access to health care services (Nordberg and Vian, 2008), but also to their relatively low incomes, imbalances between health centers in urban and rural areas (Venard, 2013). Inequalities in access to health care services are also related to the fact that public health centers do not have enough resources to cover the needs of health care seekers (Livinec et al., 2013). Corruption happens to be a roundabout way to access health care services. Azfar and Gurgur (2004); Lewis (2006); Ensor (2004); Cockcroft (2014) shows that corruption harms the delivery of health services and has negative consequences for the development of the health sector. Corruption does not favor the use of public health facilities and has a direct negative impact on the access of the relatively poor population through informal payments (Lewis, 2006, 2007, UNDP, 2011). Informal payments for medical services often discourage

relatively poor users from consulting (Vian et al., 2010, Lewis and Perttersson, 2009). Delavallade (2006) believes that corruption has a direct negative effect on the quality of medical care, causes inefficiency in health care and filters access to health benefits. It leads to a decline in the use of health services, an increase in waiting times and the deterioration of the well-being of users (Azfar and Gurgur, 2004).

In Benin, only 54% of the rural population has access to health facilities over a radius of five kilometers, and the health infrastructure coverage rate is 88.3% in 2011 compared to 93.1% in 2016; the attendance rate of public health services rose from 29.7% in 2015 to 25.9% in 2016 (ASS, 2012, 2017). Healthcare costs borne by patients represent barriers to access to health care benefits (OECD, 2015). Households account for 42.2% of health expenditure, which limits their access to health care (WHO, 2019). Health spending ranges from 2.58% of GDP in 1995 to 2.34% of GDP in 2015 (World Bank, 2017) and more than half of the population does not have access to essential medicines (WHO, 2019). Users develop corrupt behaviors when trying to access public services in their country and about 22% of public service users have paid a bribe (TI, 2015). In Africa, relatively poor using public services have likely paid twice a bribe than the rich users. What are the effects of corrupt behavior on access to health care benefits? The purpose of this paper is to analyze the effect of corruption behavior on access to health care services in public health centers in Benin. The contribution of this paper is twofold, it aims to show, on the one hand, that corruption behavior negatively affects the income of relatively poor households and on the other hand limits their access to health care benefits in public health centers.

The rest of the paper is organized as follows. The second section deals with the literature review on corruption related to inequalities of access. Section III discusses the methodology of the study and the last discusses the specification of the model and the presentation of the estimation results.

II. Literature review

A. Delegation system and corruption behavior

From the 1970s, the principal-agent model is mobilized to analyze the state structures that are conducive to the development of corruption. Corruption is rooted in the delegation system which is a mechanism for coordination and facilitation of transactions within public health centers. The corruption arises from the externality imposed on the briber by the relationship of delegation, against and even beyond the will of the principal, in the absence of a contractual relationship between the principal and the briber. Corruption draws its specificities from the interweaving of two contracts with divergent objectives.

The resulting corruption problems include inappropriate ordering of tests and procedures that increase rents and financial gains, bribes for health care, absenteeism, and misappropriation of public resources for private purposes (Di Tella and Savedoff, 2001).

However, the information is asymmetric between different actors, making it difficult to identify and control diverging interests (Savedoff, 2006). The behavior of these different actors creates risks of corruption and conflicts of interest (Latham, 2001, Kassirer, 2006) and inadequate regulation in the health sector (Francis and Edmeston, 2012). The delegation system within public health centers creates incentives for the development of corrupt behavior.

B. Determinants of corruption behaviors

The economic literature discusses the incentives theory to explain the corruption behavior of economic stakeholder (Amundsen et al., 2000, Bardhan 1997, Klitgaard 1991, Cadot, 1987). The incentive theory suggests that corruption depends on the aversion to the illegality of the briber and the public official. It announces that corruption behavior increases if the expected rent is high and that the corruption is all the more extended as the expected profit is high. However, the corruption decreases with the increase of the salaries in public sector (Lavallée et al., 2008). Incentive theory shows that there is an efficiency wage comparable to the expectation of bribery that can prevent corruption behavior. As instrument, this incentive is intended to reconcile the divergent interests of the delegate and delegate through the provisions established by the delegation contract (Jacquemet, 2005). This relationship between the salary of health professionals and the level of corruption is not significant. The risks of corruption in the health sector are only influenced by several organizational factors (Vian 2007). Stakeholders attending the public health industry are often unaware of their rights. In addition, there is a wide variety of dispersed actors in the health sector, decision makers, health care providers, health professionals and consumers who interact in complex ways. These are interactions between patients and health professionals, between payers and hospitals and between hospitals and providers (Gaitonde, 2016).

C. Corruption behavior in public health centers.

The study on the possible relationship between actors within the public sphere has been initially done by Becker (1968). The public sphere is characterized by relationships that are totally hierarchical where the superiors dictate, without any difficulty, their orders to inferiors.

However, bureaucrats modify orders and substitute for the realization of public interests that of their own private interests. These behaviors flout pre-established norms and rules and undermine the principles of the new institutional economy that specifies the set of rules and norms that delimit and regulate the behavior of individuals (Williamson, 2000). Klitgaard (1998) breaks down corruption as the monopoly plus discretion less responsibility. In fact, the monopoly creates opportunities for corruption and limits users' ability to choose other service providers. If the government is the only provider of medical services, the patient may be forced to pay bribes to access these services. Discretion refers to the autonomous power of a public official to make decisions such as hiring staff or deciding what medications are needed and in what quantities to procure them. Practitioners use discretion to authorize and accredit health facilities, providers, services and products, opening up risk and abuse of power in the use of resources (Vian, 2007). Clinical care providers also exercise their discretion in making decisions about the amount and types of services a user should have.

The head of health services may choose to hire an unqualified parent, or a procurement officer. He may decide to purchase a new, high-priced drug in amounts that go well beyond what is needed to obtain a promised bribe. Transaction transparency allows corruptors to more easily identify the officer in charge of discretion (Bac and Cornilleau, 2001). The lack of accountability refers to the behaviors of practitioners who work in the underfunded and inefficient public sector with limited promotions and little supervision. However, those in high-paying jobs in the private sector are encouraged to generate business for their employers by overvaluing and over-treating patients, both medically and financially (Jain, 2014).

III. Methodology

We present in this section the econometric model and the specification of the empirical model.

A. Econometric Model

The econometric model used is inspired by the work of Griliches (1994). It explains the probability so that a user in contact with public health centers develops corruption behavior (Lavallée et al., 2008).

We study the probability that a user will develop corruption behaviors during his / her visit to public health services to access health care. Let y be the variable capturing the corruption behavior of user i and y^* the unobservable variable measuring the degree of user involvement in corruption. The analysis model can be written in the following form:

$$y = \begin{cases} 1 & \text{si } y^* = \sum \beta_i x_i + \varepsilon_i \geq 1 \\ 0 & \text{otherwise} \end{cases} [1]$$

With x_i denoting of the user's characteristics, β_i the associated parameter and ε_i the error term that is assumed to follow the normal distribution.

The user in contact with the public health center assigns a level of utility to each of his corruption behavior and selects the one that provides the maximum utility.

This model postulates that the utility of choice has a probabilistic nature. This randomness does not call into question the deterministic nature of individual choices but reflects the idea that only a part of the determinants of choices is observable.

In fact, on the one hand, individual preferences are influenced by a set of unobservable characteristics specific to users, and on the other hand, certain characteristics of the goods involved in decision-making may escape an external evaluator. Thus, this utility is broken down into systematic utility and the other random. Formally, the utility function is written:

$$U_i = V_i + \varepsilon_i [2]$$

With U_i the utility of the user i for the choice of the corruption behavior in the set of alternatives; V_i , the systematic component of utility and, ε_i the error term. The rational user adopts the corruption behavior that maximizes its utility among all the alternatives of the C_n choices, namely:

$$y_i = f(U_i) = \begin{cases} 1 & \text{si } U_i \text{ est } \max_i U_i \\ 0 & \text{sinon} \end{cases} [3]$$

With y_i a choice indicator equal to 1 if alternative i is chosen, 0 otherwise. Starting from (2), the corruption behavior i will be chosen from the set of choice alternatives C_n if and only if: $U_j > U_i, \forall j \neq i \in C_n$

$$V_j + \varepsilon_j > V_i + \varepsilon_i \text{ and } V_j - V_i > \varepsilon_i - \varepsilon_j [4]$$

Since the value of the inequality is unobservable, we must look at the probability of occurrence of corruption behavior. The probability of choosing the alternative i from among all the possibilities of the set C_n is thus expressed by McFadden (1974).

$$P_i = P_r(y_i = \frac{1}{C_n})$$

$$P_i = P_r(U_j > U_i), \forall j \neq i \in C_n$$

$$P_i = P_r(V_j - V_i > \varepsilon_i - \varepsilon_j), \forall j \neq i \in C_n [5]$$

$$\log \left[\frac{p_i}{1-p_i} \right] = X_i' \beta$$

$$[6]$$

Since the distribution of $\varepsilon_i - \varepsilon_j$ is not known in the analysis, we must make assumptions about the nature of its distribution. In discrete choice models, random terms are traditionally assumed independently and identically distributed (idd) according to an extreme value distribution (Greene, 2005).

The probit model served as a framework for identifying the profile of users who develop corruption behaviors to access health care services. But, probit regression for dichotomous variables ignores selection bias problems. Consequently, the Heckman's (1979) two-step method is an alternative for correcting these possible selection biases. The selection equation reflects the propensity to opt for corrupt behaviors to access health care. It is formalized as follows:

$$y_{1i} = \begin{cases} 1 & \text{if } sy_{1i}^* > 0 \\ 0 & \text{if } sy_{1i}^* \leq 0 \end{cases}$$

$$y_{1i}^* = X_i \beta + \varepsilon_i [7]$$

y_{1i}^* is a latent variable that presents the decision to corrupt the user in contact with the public health center. The substantial equation is written as follows :

$$y_{2i} = \begin{cases} 1 & \text{if } sy_{2i}^* > 0 \\ 0 & \text{if } sy_{2i}^* \leq 0 \end{cases} [8]$$

$$y_{2i}^* = W_i \alpha + \gamma_i [9]$$

With y_{2i}^* the latent variable which represents the access to health care services of the corrupt user, with W_i and X_i the observable socio-demographic variables; γ_i following a normal distribution $N(0,1)$ and ε_i a normal distribution $N(0, \sigma_\varepsilon)$ and ρ the correlation coefficient of the error terms.

B. Specification of the empirical model

In this section, we present the model to be estimated, the different variables and their sources. Following equation [7], the model is presented as follows:

$$X_i' \beta = \beta_0 + \beta_1 X_{1i} + \beta_2 X_{2i} + \beta_3 X_{3i} + \dots + \beta_k X_{ki} + \varepsilon_i [10]$$

With X_i' denoting the variables of the study and β_i the parameters to be estimated. The variable of interest is a binary variable that denotes the corruption behavior of the public health centers users. It takes the value 1 if the user develops the corruption behaviors and 0 otherwise.

The explanatory¹ variables concern sociodemographic and economic factors that can lead to corruption behavior at the level of the public health centers users. These include indicators such as gender, education, income, participation in the health care market; and the share of income spent on health care (Lavallée et al., 2008). The data used comes from the TraSCoB project database.

¹Societal treatment of Corruption in Benin (TraSCoB), the Chair of the Human Rights and Democracy

IV. Results

Table 1: Descriptive statistics

variables	modalities	Mean /%	St. Dev.	Obs	Low	Max.
sex (reference: male)						
	female	64.34	(0.479)	1063	0	1
corruption behavior (reference: no)						
	Yes	13,20	(0.338)	218	0	1
assessment of health care (reference: unsatisfied)						
	satisfied	73.31	(0.733)	1211	0	1
	very satisfied	5.87	(0.058)	97	0	1
respect of appointment (reference: never respected)						
	Once	24,03	(0.427)	397	0	1
	several times	41.83	(0.493)	691	0	1
monthly income (reference: less than 50000)						
	between 50000 and 150000	0.375	(0.484)	621	0	1
	between 150000 and 300000	0,039	(0.195)	66	0	1
	between 300000 and 500000	0.006	(0.081)	11	0	1
	over 500,000	0.084	(0.278)	140	0	1
social coverage (reference: yes)						
	no	84,02	(0.366)	1388	0	1
drug diversion (reference: no)						
	Yes	84.93	(0.357)	1403	0	1
usefulness of care (reference: yes)						
	no	4.06	(0.197)	67	0	1

From table1 it results that the standard deviations are small, which means that the variances are minimal between the values of the variables. No need to make a logarithmic transformation to normalize the observations. In terms of the statistical properties of the variables, the possible presence of multi-collinearity which is likely to bias the results was solved according to the Sperman correlation test, at the end of which all the coefficients obtained are weak and less than 0.7. The estimation by the probit model does not take into account the selection bias. As a result, Heckman's (1979) two-stage selection model is used to correct a possible selection bias.

Table 2: Model selection Heckman

Selection Model: corruption behavior				Coef.	Prob.
sex (reference: masculine)					
		female		0.065 ** (0.030)	0.031
Assessment of health care (reference: dissatisfied)					
		satisfied		-0.201 *** (0.030)	0,000
		very satisfied		-0.180 *** (0.0607)	0,003
respect of appointment (reference: never respected)					
		Once		-0.016 (0.027)	0,540
		several times		-0.039 (0.030)	0.198
	between	50000	and	-0.418 *** (0.119)	0,000
	between	150000	and	-0.429 *** (0.161)	0,008
	between	300000	and	-0.048 (0.176)	0,785
	over	500,000		-0.027	0.553

Selection Model: corruption behavior				Coef.	Prob.
				(0.046)	
social coverage (reference: yes)	no			-0.413 *** (0.048)	0,000
drug diversion (reference: no)	Yes			-0.309 *** (0.055)	0,000
usefulness of health care (reference: yes)	no			0,004 (0.074)	0,950
Constant				0.690 *** (0.047)	0,000
substantial Model: access to health care benefits of the corrupt user					
sex (reference: masculine)	female			0,127 (0.078)	0.105
monthly income of the user (reference: less than 50000)	between	50000	and	-1.249 *** (0.081)	0,000
	between	150000	and	-1.426 *** (0.209)	0,000
	between	300000	and	-0.811 ** (0.413)	0,050
	between	500000	and	-0.324 ** (0.127)	0,011
	over	300,000			
social coverage (reference: yes)	no			-0.497 * (0.104)	0,000
drug diversion (reference: no)	Yes			-0.623 *** (0.109)	0,000
usefulness of care (reference: yes)	no			-0.488 *** (0.108)	0,000
	not at all			-0.021 (0.150)	0.887
Constant				1,264 *** (0.133)	0,000
number of observations				1652	
censored observation				910	
uncensored observation				742	
p-value					0,000
wald χ^2				340.78	
lambda				0.352 *** (0.134)	0,008

The convergence is rapid since it takes place after six iterations with a Wald statistic of 340.78. In total, the model is well specified with pvalue = 0.000 < 0.05 and the hypothesis H_0 that all the coefficients are equal to zero is rejected. Indeed, only the correlation coefficient of the error terms in the two equations captured by lambda, the inverse of the Mill's ratio, is 0.352. The Chi-square test displays a (ρ) significantly different from 0 ($H_0 : \rho = 0$). The rejection of the null hypothesis (pvalue < 0.05) means that the substantial equation is not independent of the selection equation, in fact the share of income devoted to health care by a user of the public health centers and the option made for corruption behavior are not decisions taken independently.

Gender and corruption behavior

The estimation of the model by the Heckman's two-step selection method reveals that sex has a positive and significant effect on user corruption behavior. Moreover, being a man increases the probability of developing corruption behavior by 6.5 percentage points compared to female users. If our results reveal that men develop more corrupt behaviors compared to women, this is due to the fact that the man who heads the household takes his family to the hospital, he has the financial decision-making power necessary to offer the services. bribes to be quickly taken care of women, on the other hand, are mostly household keeper and, given their domestic production activities, are unable to mobilize a high income to bribe and are able to spend more time at hospital. This justifies the hypothesis that the user's gender participates in the choice of corruption behavior in public health centers. In light of previous findings, women are less tolerant of corruption (Lavallée et al., 2010). However, it is worth noting that other results show that it is not the presence and participation of women that reduce corruption, but rather the effectiveness of institutions (Cheung and Hernandez-Julian, 2006).

Monthly income and users corruption behavior

The results show that monthly incomes of the user negatively and significantly explains their corruption behaviors in the selection model and in the substantial model. Users with relatively low monthly incomes find it difficult to develop corrupt behaviors, as opposed to users with relatively high incomes. The relatively low-income health care claimant can not even cover all the expenses related to the renewal of his health stock and therefore they can not mobilize an additional amount to bribe. On the other hand, users of relatively high-income hospitals manage to release an excess amount for bribery after having borne their health expenses. This result is explained by the fact that users who have the ultimate goal of renewing their health stock and belong to a relatively low income bracket replace a portion of their monthly income that should be spent on health care in bribery. The income of these users does not allow them to simultaneously offer bribes and purchase drugs. This result is justified by the fact that corruption reduces the net income of the poor (TI, 2007). Corruption leads to additional costs for the public sector, including over-billing of health services, and the income disparity is positively correlated with corruption (Paldam, 2002). Also Cartier-Bresson (2008), finds that corruption generates the unequal distribution of resources and affects the income of the community. Similarly, income is correlated negatively with corruption and in a statistically significant way (Graeff and Mehlkop 2003, Damania et al., 2004). The following are the reasons for claiming bribes: gender, income, education, marital status, and the state of institutions in the country, the wealth of an individual (Lavallée et al., 2010).

Users appreciation and corruption behavior

The estimation results reveal a negative and significant link between user appreciation and its corruption behavior. When the requesting health care agent is not satisfied with the care provided in the public center, he does not hesitate to offer a bribe to ensure better care and care. better quality of health unlike the user who is satisfied. Health care claimants who are satisfied with health care benefits no longer have to bribe, but hospital users who are dissatisfied with the provision of health care are the obligation to offer a bribe in return for a health service that meets its expectations. This analysis is in line with the conclusions of the work of Dor and Watson (1995) and Bien (2001), which state that users are sensitive to the effort deployed by the practitioner and when this effort does not make it possible to restore their health stock, they opt for corrupt behavior in order to have a satisfaction. These results are in line with the theoretical predictions that corruption behavior in public health centers reflects problems of transparency, mainly difficulties related to the functioning of the health care market (Arrow, 1963, Akerlof, 1970). From this point of view, corruption is indeed a diversion of the ends of an institution with a view to a personal advantage or more generally of a private gain, whether personal or collective (Rose-Akerman, 1999, Klitgaard et al. al., 2002).

Diversion of drugs and users corruption behavior

The estimated coefficient of the drug diversion variable is negative and significant in the substantial model and the selection model. Users who are reluctant to develop corrupt behavior in public health centers are subject to a long list of medicines to finance, these drugs are not necessarily intended for use but will be diverted and sold at a low cost than that of the formal market compared to health-seeking users who are predisposed to giving bribes do not register the misuse of their medications. This process consists in prescribing drugs to dying users and who will be diverted by a group of people that tolerates corruption. This is in line with our expectations since the diversion of drugs is a signal that reflects the presence of corruption behavior. The diversion of drugs in public clinics and their resale on the private market justifies the existence of corruption (World Bank, 2010). These corruption behaviors result in the existence of a parallel market for the sale of medicines, at a price lower than that of the formal market, whose source comes from the diversion of medicines from users who had not previously given de-vin and who pay in return for the loss of their medicines. Thus, all prescribed medications that lengthen the prescription were prescribed with the intention of being diverted later. These

results are in line with WHO's (2009) assessments that fraud and corruption in its various forms can result in the disappearance of as much as 25% of the drugs purchased. This result reflects the fact that users who are victims of crimes such as drug theft are more in contact with a corrupt public administration (Lavallée et al., 2008, Hunt, 2006).

The lack of diagnostic equipment, the theft of medicines, the absenteeism of the professionals, the lack of rigor and method, the lack of punctuality, the non-respect of the meetings of the users contributed to discredit this sector with statistics catastrophic (Leonard, 2009). In addition, the increase in drug diversion limits access to health care benefits for health care seekers. Once the drugs bought by the user are diverted and he has no income to renew his purchase. He no longer has the opportunity to access health care. Users with precarious economic and financial powers do not have access to quality healthcare services (Doubouya, 2008).

Social security and corruption behavior

The estimated coefficient for the variable (social coverage) is negative and significant in the selection model and in the substantial equation. When health care applicants have social coverage, they do not develop corrupt behavior. Since the public center user who has social coverage does not directly pay for his health care and in most cases the members of this household who benefit from this coverage can go to the health center without necessarily having a health insurance. sum to corrupt. Most users who have social security coverage do not necessarily have the means to fully support their health expenditure and therefore they do not have the possibility to offer bribes, which contributes to the reduction of health care behaviors. corruption in public health centers. On the other hand, other types of users who, in addition to social security and in complicity with health care providers, overcharge the costs of providing health care either by prescribing a long list of useless drugs that will be resold on a parallel market. diversion of drugs. The income obtained in this illegal transaction is transferred to all the members of the collusion who tolerates corruption, which justifies corruption behavior in the health sector. From the conclusions of Banfield (1975), the causes of corruption would be due to the opportunistic behavior of rational agents who would coordinate on the market of corruption. Indeed, users who have the ultimate goal of renewing their health stock and this through their social coverage do not opt for corrupt behavior. This result is explained by the fact that social coverage facilitates access to care in public health centers and reduces corruption behavior. In addition, users with social coverage in public administration contacts access health care because social insurance works as a guarantee of access to health care benefits and the health care user is no longer bribe, which helps to reduce his corrupt behavior. This result confirms that access to health care benefits is conditional on income and there is a correlation between type of health coverage and access to health care benefits (Dourgnon et al., 2012). In the light of theoretical work, the type of health financing influences the level of corruption (Savodoff, 2006). This result aligns with that of TI (2016) which states that a system relying on funding from a social security institution is more exposed to corruption so that medical staff prescribe unnecessary medical care or that the public authority subsidizes acts that have never been carried out.

V. Conclusion

In sum, unequal access to health care services is linked to the fact that public health centers are particularly vulnerable to corruption (EU Report, 2017) and they do not have enough resources to cover the needs of health claimants (Livinec et al., 2013). The objective of this research is to analyze the effect of corruption behaviors on access to health care services in public health centers in Benin. The estimation of Heckman's selection model (1979), based on survey data from users of public health centers in Benin in 2017, showed that corruption behavior facilitates access to health care services for each health care applicant. But collectively, they slow down the normal functioning of health care services, create a congestion effect and increase the vulnerability of users of public health centers. Users of public health centers may have to commit acts of corruption for three main reasons: firstly, the opportunity to commit such behavior allows them to quickly access health care. Second, individual values, social norms and the erosion of public service values can contribute to creating an environment in which corruption appears to be justified, and thirdly, inadequate wages can put some pressure on public servants, who will give up therefore to corruption (Vian, 2008). The fight against corruption will then have to continue in order to clean up the health care market so that its operation becomes more efficient.

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