Schneiders RE, Ronsoni RM, Sarti FM, Nita ME, Bastos EA, Zimmermann IR, Ferreira FF. Factors associated with the diffusion rate of innovations: a pilot study from the perspective of the Brazilian Unified National Health System. Cad Saúde Pública 2016; 32(9):e00067516.

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The journal has been informed about some errors in the paper. The corrections are follows:

A revista foi informada sobre alguns erros no artigo. As correções seguem abaixo:

La revista fue informada sobre algunos errores en el artículo. Siguen las correcciones:

Where the text read:

Table 1 Selected pharmaceutical innovations incorporated in the Brazilian Program for Specialized Pharmaceutical Services (CEAF). Brazil, 2015.

Medicine	Incorporation	Indication	Other treatments	Proportio	n of patients us	•	medicine *
	date		available at CEAF	[month/period] (%)			
				1st	12 th	24 th	36 th
				t = 0	t = 4	t = 8	t = 12
Cyclophosphamide	Oct/2008	Acquired chronic pure red cell aplasia	Azathioprine, Cyclo- sporine, Immuno- glubulin	0.0			
Deferasirox	Oct/2008	Chronic iron over- load	Deferiprone, Deferoxamine	0.0	67.5	76.9	79.6
Everolimus	Oct/2008	Kidney transplant	Azathioprine, Cyclosporine, Methylprednisolone, Mycophenolate mofetil, Mycophenolate sodium, Sirolimus, Tacrolimus	0.0	0.1	1.2	1.9
Galantamine	Oct/2008	Alzheimer's disease	Donepezil, Rivastig- mine	7.4	11.7	15.5	16.8
Aluminium hydrox- ide	Mar/2010	Hyperphosphatemia in chronic kidney insufficiency	Calcitriol, Sevelamer	0.0	0.0	0.0	0.0
Clobazam	Mar/2010	Epilepsy	Ethosuximide, Gaba- pentin, Lamotrigine, Primidone, Topira- mate, Vigabatrin	0.0	5.1	3.7	4.5
Entecavir	Dec/2009	Hepatitis B	Adefovir, Interferon- alpha, Lamivudine, Tenofovir	0.0	21.8	30.0	
Sildenafil	Mar/2010	Pulmonary arterial hypertension	lloprost	99.0	99.9	99.9	100.0
Natalizumab	Mar/2010	Multiple sclerosis	Azathioprine, Glat- iramer, Interferon- beta	0.0	2.0	5.2	6.6
Pyridostigmine	Mar/2010	Myasthenia gravis	Azathioprione, Cy- closporine, Immuno- globulin	0.0	27.2	32.8	36.6

^{*} Percentage in relation to the total number of patients treated for the disease at the CEAF for the same use. Source: prepared by the authors, based on synthesis from Brazilian Health Informatics Department (DATASUS).

It should read:

Table 1 Selected pharmaceutical innovations incorporated in the Brazilian Program for Specialized Pharmaceutical Services (CEAF). Brazil, 2015.

Medicine	Incorporation	Indication	Other treatments available at CEAF	Proportion of patients using innovative medicine *			
	date			[month/period] (%)			
				1 st	12 th	24 th	36 th
				t = 0	t = 4	t = 8	t = 12
Cyclophosphamide	Oct/2008	Acquired chronic pure red cell aplasia	Azathioprine, Cyclosporine, Immunoglubulin	0.0	0.1	1.3	9.1
Deferasirox	Oct/2008	Chronic iron overload	Deferiprone, Deferoxamine	0.0	67.5	76.9	79.6
Everolimus	Oct/2008	Kidney transplant	Azathioprine, Cyclosporine, Methylprednisolone, Mycophenolate mofetil, Mycophenolate sodium, Sirolimus, Tacrolimus	0.0	0.1	1.2	1.9
Galantamine	Oct/2008	Alzheimer's disease	Donepezil, Rivastigmine	7.4	11.7	15.5	16.8
Aluminium hydroxide	Mar/2010	Hyperphosphatemia in chronic kidney insufficiency	Calcitriol, Sevelamer	0.0	0.0	0.0	0.0
Clobazam	Mar/2010	Epilepsy	Ethosuximide, Gabapentin, Lamotrigine, Primidone, Topiramate, Vigabatrin	0.0	5.1	3.7	4.5
Entecavir	Dec/2009	Hepatitis B	Adefovir, Interferon- alpha, Lamivudine, Tenofovir	0.0	21.8	30.1	33.9
Sildenafil	Mar/2010	Pulmonary arterial hypertension	lloprost	99.0	99.9	99.9	100.0
Natalizumab	Mar/2010	Multiple sclerosis	Azathioprine, Glatiramer, Interferon-beta	0.0	2.0	5.2	6.6
Pyridostigmine	Mar/2010	Myasthenia gravis	Azathioprione, Cyclosporine, Immunoglobulin	0.0	27.2	32.8	36.6

^{*} Percentage in relation to the total number of patients treated for the disease at the CEAF for the same use. Source: prepared by the authors, based on synthesis from Brazilian Health Informatics Department (DATASUS).

Where the text read:

Table 2

Description and characterization of categories of independent variables for analysis of diffusion rate of pharmaceutical innovations in the Brazilian Unified National Health System (SUS). Brazil, 2015.

Category of va	Value	
1. Other treat	ments already available at the CEAF	Binary variable
Description	Analyzes the influence of preexistence of other medication available for treatment of the same disease at CEAF, which may facilitate access to pharmaceutical innovations due to previous knowledge of physicians and patients.	(Yes, No)
Method	Search in CEAF ordinances to identify other medication associated with ICD-10 correspondent to	
	the specific disease targeted by the pharmaceutical innovation.	
2. Number of	competitors for treatment of the same disease	Discrete variable
Description	Identifies the amount of competitor medications for the same line of treatment of the disease, in- fluencing the probability of pharmaceutical innovation adoption.	(Count)
Method	Analysis of the first clinical PCDT available for the targeted disease. If no competitor medications	
	are mentioned, the variable value was zero. Otherwise, the number of active principles competing	
	for treatment of the same disease was computed.	
3. Line of trea	tment	Binary variable for each line of
Description	Analyzes the influence of the line of treatment on diffusion rates, since medication in the last line of	treatment
Method	treatment, theoretically, should be prescribed to a smaller number of patients. Analysis of the first PCDT available for the targeted disease, in order to identify changes in line of treatment using another health technology (pharmaceutical or other) in case of refractoriness, fail	(1st line, 2nd line, 3rd line, or NA)
	or intolerance to standard treatment. If it was not possible to establish a line of treatment, the term "non-defined" was attributed.	
4. Medicine us	sed in combination with other medication	Binary variable
Description	Verifies the influence of need to adopt a combined use of medication, due to potential difficulties to access other medicines prescribed.	(Yes, No)
Method	Analysis of the first PCDT available for the targeted disease, in order to identify indication of use in	
	association with other medicines.	
5. Innovation v	within the SUS	Binary variable
Description	Analyzes the influence of incremental benefits of the pharmaceutical innovation in comparison to other types of treatment of the disease.	(Yes, No)
Method	Due to absence of specific definition regarding the concept of innovation in health care, the fol- lowing premises were adopted: Medication for treatment of diseases not yet available at SUS;	
	Medication for treatment of diseases already available that: Represents new line of treatment of the disease; or	
	Presents improved efficacy in relation to other medication already available, based on search of evidences published in meta-analysis or direct comparison ^{20,21} .	
	Other medications competing in the same line of treatment and in the same pharmacological category were not considered innovative.	
6. Time gap b	etween from incorporation and clinical protocol publication (months)	Discrete variable
Description	Analyzes the influence of PCDT in diffusion rates, due to definition of prescription and utilization criteria.	(Count)
Method	Identification of the publication date of PCDT. If the PCDT was published prior to the medication incorporation, the variable value was zero.	
7. Treatment f	or infectious diseases	Binary variable
Description	Analyzes the influence of type of disease in diffusion rates of pharmaceutical innovations, con-	(Yes, No)
1	sidering that infectious diseases have limited time for treatment in comparison to other types of diseases.	. , ,
Method	Assessment of characteristics of the targeted diseases, according to description in PCDT.	

Table 2 (continued)

Category of v	Value	
8. Lag period	after incorporation of the medicine (in trimesters)	Discrete variable
Description	Information used to estimate the diffusion rates over time (up to three years after incorporation).	(Count)
Method	Assignment of ordinal category corresponding to the number of trimesters after incorporation.	
9. Area of spe	cialty in medicine	Binary variable for each area of
Description	Analyzes the influence of the area of medical specialty of the disease on diffusion rates of pharmaceutical innovations.	medical specialty (Cardiology, Hematology, Infec-
Method	Analysis of the PCDT for the targeted disease, in order to determine the area of medical specialty for treatment of the disease. Each disease was categorized in only one specialist area, if more than one area was indicated; the most representative specialist area was adopted.	tious Disease, Rheumatology, Gastroenterology, Nephrology, Neurology)
10. Medicine	with patent (monopoly)	Binary variable
Description	Analyzes the influence of the presence or absence of generic or similar drugs at the moment of incorporation, which presupposes the absence or presence of patent, respectively.	(Yes, No)
Method	Search in the price list of the Chamber for Regulation of the Pharmaceutical Market, in order to identify generic or similar drugs in Brazil.	
11. Annual cos	st of drug therapy per patient	Continuous variable
Description	Analyzes the interference of drug therapy costs per patient in the diffusion rate and potential impacts of reduction in prices due to scale in production, considering that overall budget impact may influence the access to medication within the SUS.	(Log R\$)
Method	Estimation of annual costs for standard treatment (in log), considering recommended dosage of the medication in the PCDT for the targeted disease, at the period of pharmaceutical innovation incorporation within the SUS. A standard patient profile weighting 70kg was adopted, in case of dosage per body weight. The annual costs were based on the amount of medication for annual treatment and the PMC (18%) from the Chamber for Regulation of the Pharmaceutical Market (2014).	
12. Higher pri	ce in comparison to pharmaceutical competitors	Binary variable
Description	Analyzes the influence of variations in price on the diffusion rate, in comparison with other technologies for drug therapy of the same disease already available at the SUS.	(Yes, No, NA)
Method	Comparison of the variable "annual cost of drug therapy per patient" in relation to the annual costs estimated for drug therapy of the targeted disease using other medication available within SUS. The annual costs were based on the amount of medication for annual treatment and the PMC (18%) from the Chamber for Regulation of the Pharmaceutical Market (2014). If there are no other therapeutic options for treatment of the disease, the variable value was "non applicable".	
13. Public mar	nagement level responsible for acquisition of medication	Dummy variable for each gov-
Description	Assesses the impact of diverse patterns of acquisition of medication for CEAF (federal, and/or state level acquisition) on diffusion rates.	ernment level (Ministry of Health, State Secre-
Method	Identification of the public management level responsible for acquisition of the medication, through search in Ministry of Health ordinances that established the Component of Medications with Exceptional Dispensation (Ordinance GM/MS 2,577/2006), the CEAF (Ordinance GM/MS 2,981/2009), and other ordinances published for alteration or revocation of the previous ordinances and its annexes. Changes in responsibility during the period analyzed were categorized as "both".	tary of Health, or both)
14. State of re	esidence of patient	Binary variable for each Brazil-
Description	Verifies differences among states of residence of patients in the access of medication provided by SUS or in execution of CEAF, and its influence on diffusion rates.	ian state
Method	Extraction of data regarding patients' state of residence from SUS databases, described in Methods.	

Description Verifies differences among regions of residence of patients in the access of medication provided by SUS or in execution of CEAF, and its influence on diffusion rates. Method Extraction of data regarding patients' region of residence from SUS databases, described in Methods. Binary variable for each Brazilion ods.	Category of v	Value	
by SUS or in execution of CEAF, and its influence on diffusion rates. Method Extraction of data regarding patients' region of residence from SUS databases, described in Methods. 16. Long-term use medication Analyzes the influence of period recommended for treatment on diffusion rate, considering that continuous-use medication usually presents lower adherence from patients. Method Analysis of general recommendations regarding the period recommended for treatment using the medication in the PCDT for the targeted disease, at the period of pharmaceutical innovation incorporation within SUS. Long-term use medication was considered to be indicated for utilization during periods longer than one year of treatment. In the case of pharmaceutical innovations without published PCDT at the moment of incorporation, information contained in recent PCDT were adopted. 17. Improvement in route of administration Binary variable Description Analyzes the impact of advantages in dosage scheme or route of administration of the pharmaceutical innovation in comparison to other medications already available for treatment of the same disease at CEAF. Method Analysis of recommended dosage of the pharmaceutical innovation in comparison to other medication available, considering information of dosage per week or ease in route of administration. Advantages in route of administration were based on the following hierarchy: oral > subcutaneous or intradermic > intradermic > intramuscular > intravenous (with the first options considered to be preferable to	15. Region of residence of patient		Binary variable for each Brazil-
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17. Improvement in route of administration Description Analyzes the impact of advantages in dosage scheme or route of administration of the pharmaceutical innovation in comparison to other medications already available for treatment of the same disease at CEAF. Method Analysis of recommended dosage of the pharmaceutical innovation in comparison to other medication available, considering information of dosage per week or ease in route of administration. Advantages in route of administration were based on the following hierarchy: oral > subcutaneous or intradermic > intramuscular > intravenous (with the first options considered to be preferable to		out published PCDT at the moment of incorporation, information contained in recent PCDT were	
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Advantages in route of administration were based on the following hierarchy: oral > subcutaneous or intradermic > intramuscular > intravenous (with the first options considered to be preferable to	Method	Analysis of recommended dosage of the pharmaceutical innovation in comparison to other medi-	
or intradermic > intramuscular > intravenous (with the first options considered to be preferable to		cation available, considering information of dosage per week or ease in route of administration.	
·		Advantages in route of administration were based on the following hierarchy: oral > subcutaneous	
the latter ones).		or intradermic $>$ intramuscular $>$ intravenous (with the first options considered to be preferable to	
		the latter ones).	

Binary variable: variable assuming values 0 or 1, according to the characteristics attributable to the case in analysis, indicating the effect of the characteristic described on the rate of adoption; CEAF: Brazilian Program for Specialized Pharmaceutical Services; ICD-10: 10th revision of the International Classification of Diseases; NA: non-applicable; PCDT: clinical protocol and therapeutic guideline; PMC: maximum price for consumers. Source: prepared by the authors, based on synthesis of documental research at the Brazilian Ministry of Health.

It should read:

Table 2

Description and characterization of categories of independent variables for analysis of diffusion rate of pharmaceutical innovations in the Brazilian Unified National Health System (SUS). Brazil, 2015.

Category of va	ariable	Value
1. Other treat	ments already available at the CEAF	Binary variable
Description	Analyzes the influence of preexistence of other medication available for treatment of the same disease at CEAF, which may facilitate access to pharmaceutical innovations due to previous	(Yes, No)
	knowledge of physicians and patients.	
Method	Search in CEAF ordinances to identify other medication associated with ICD-10 correspondent to	
	the specific disease targeted by the pharmaceutical innovation.	
2. Number of	competitors for treatment of the same disease	Discrete variable
Description	Identifies the amount of competitor medications for the same line of treatment of the disease, influencing the probability of pharmaceutical innovation adoption.	(Count)
Method	Analysis of the first clinical PCDT available for the targeted disease. If no competitor medications	
	are mentioned, the variable value was zero. Otherwise, the number of active principles competing for treatment of the same disease was computed.	
3. Line of treat	·	Binary variable for each line of
Description	Analyzes the influence of the line of treatment on diffusion rates, since medication in the last line of	treatment
Description	treatment, theoretically, should be prescribed to a smaller number of patients.	(1st line, 2nd line, 3rd line,
Method	Analysis of the first PCDT available for the targeted disease, in order to identify changes in line of	or NA)
Method	treatment using another health technology (pharmaceutical or other) in case of refractoriness, fail	OI IVA
	or intolerance to standard treatment. If it was not possible to establish a line of treatment, the term "non-defined" was attributed.	
4. Medicine us	sed in combination with other medication	Binary variable
Description	Verifies the influence of need to adopt a combined use of medication, due to potential difficulties to access other medicines prescribed.	(Yes, No)
Method	Analysis of the first PCDT available for the targeted disease, in order to identify indication of use in	
	association with other medicines.	
5. Innovation v	within the SUS	Binary variable
Description	Analyzes the influence of incremental benefits of the pharmaceutical innovation in comparison to	(Yes, No)
	other types of treatment of the disease.	
Method	Due to absence of specific definition regarding the concept of innovation in health care, the	
	following premises were adopted:	
	Medication for treatment of diseases not yet available at SUS;	
	Medication for treatment of diseases already available that:	
	A. Represents new line of treatment of the disease; or	
	B. Presents improved efficacy in relation to other medication already available, based on search of	
	evidences published in meta-analysis or direct comparison ^{20,21} .	
	Other medications competing in the same line of treatment and in the same pharmacological	
	category were not considered innovative.	5
	etween from incorporation and clinical protocol publication (months)	Discrete variable
Description	Analyzes the influence of PCDT in diffusion rates, due to definition of prescription and utilization criteria.	(Count)
Method	Identification of the publication date of PCDT. If the PCDT was published prior to the medication incorporation, the variable value was zero.	
7. Treatment f	or infectious diseases	Binary variable
Description	Analyzes the influence of type of disease in diffusion rates of pharmaceutical innovations,	(Yes, No)
•	considering that infectious diseases have limited time for treatment in comparison to other types of diseases.	
Method	Assessment of characteristics of the targeted diseases, according to description in PCDT.	

Category of va	Value		
8. Lag period a	after incorporation of the medicine (in trimesters)	Discrete variable	
Description	Information used to estimate the diffusion rates over time (up to three years after incorporation).	(Count)	
Method	Assignment of ordinal category corresponding to the number of trimesters after incorporation.		
9. Area of spec	cialty in medicine	Binary variable for each area of	
Description	Analyzes the influence of the area of medical specialty of the disease	medical specialty	
	on diffusion rates of pharmaceutical innovations.	(Cardiology, Hematology,	
Method	Analysis of the PCDT for the targeted disease, in order to determine the area of medical specialty	Infectious Disease,	
	for treatment of the disease. Each disease was categorized in only one specialist area, if more than	Rheumatology,	
	one area was indicated; the most representative specialist area was adopted.	Gastroenterology, Nephrology, Neurology)	
10. Medicine v	with patent (monopoly)	Binary variable	
Description	Analyzes the influence of the presence or absence of generic or similar drugs at the moment of	(Yes, No)	
	incorporation, which presupposes the absence or presence of patent, respectively.		
Method	Search in the price list of the Chamber for Regulation of the Pharmaceutical Market, in order to		
	identify generic or similar drugs in Brazil.		
11. Annual cos	st of drug therapy per patient	Continuous variable	
Description	Analyzes the interference of drug therapy costs per patient in the diffusion rate and potential	(Log R\$)	
·	impacts of reduction in prices due to scale in production, considering that overall budget impact	_	
	may influence the access to medication within the SUS.		
Method	Estimation of annual costs for standard treatment (in log), considering recommended		
	dosage of the medication in the PCDT for the targeted disease, at the period		
	of pharmaceutical innovation incorporation within the SUS. A standard patient		
	profile weighting 70kg was adopted, in case of dosage per body weight.		
	The annual costs were based on the amount of medication for annual treatment and the PMC		
	(18%) from the Chamber for Regulation of the Pharmaceutical Market (2014).		
12. Higher prid	ce in comparison to pharmaceutical competitors	Binary variable	
Description	Analyzes the influence of variations in price on the diffusion rate, in comparison with other	(Yes, No, NA)	
·	technologies for drug therapy of the same disease already available at the SUS.		
Method	Comparison of the variable "annual cost of drug therapy per patient" in relation to the annual		
	costs estimated for drug therapy of the targeted disease using other medication available within		
	SUS. The annual costs were based on the amount of medication for annual treatment and the PMC		
	(18%) from the Chamber for Regulation of the Pharmaceutical Market (2014). If there are no other		
	therapeutic options for treatment of the disease, the variable value was "non applicable".		
13. Public man	nagement level responsible for acquisition of medication	Dummy variable for each	
Description	Assesses the impact of diverse patterns of acquisition of medication for CEAF (federal, and/or	government level	
·	state level acquisition) on diffusion rates.	(Ministry of Health, State	
Method	Identification of the public management level responsible for acquisition of the	Secretary of Health, or both)	
	medication, through search in Ministry of Health ordinances that established the		
	Component of Medications with Exceptional Dispensation (Ordinance GM/MS 2,577/2006),		
	the CEAF (Ordinance GM/MS 2,981/2009), and other ordinances published for alteration		
	or revocation of the previous ordinances and its annexes. Changes in responsibility during		
	the period analyzed were categorized as "both".		
14. State of re	sidence of patient	Binary variable for each	
Description	Verifies differences among states of residence of patients in the access of medication provided by	Brazilian state	
1	SUS or in execution of CEAF, and its influence on diffusion rates.		
Method	Extraction of data regarding patients' state of residence from		

(continues)

Table 2 (continued)

Category of v	Value Binary variable for each	
15. Region of		
Description	Verifies differences among regions of residence of patients in the access of medication provided	Brazilian region
	by SUS or in execution of CEAF, and its influence on diffusion rates.	
Method	Extraction of data regarding patients' region of residence from SUS databases,	
	described in Methods.	
16. Long-term	use medication	Binary variable
Description	Analyzes the influence of period recommended for treatment on diffusion rate, considering that	(Yes, No)
	continuous-use medication usually presents lower adherence from patients.	
Method	Analysis of general recommendations regarding the period recommended for treatment	
	using the medication in the PCDT for the targeted disease, at the period of pharmaceutical	
	innovation incorporation within SUS. Long-term use medication was considered to be indicated	
	for utilization during periods longer than one year of treatment. In the case of pharmaceutical	
	innovations without published PCDT at the moment of incorporation, information	
	contained in recent PCDT were adopted.	
17. Improvem	ent in route of administration	Binary variable
Description	Analyzes the impact of advantages in dosage scheme or route of administration of the	(Yes, No)
	pharmaceutical innovation in comparison to other medications already available for treatment	
	of the same disease at CEAF.	
Method	Analysis of recommended dosage of the pharmaceutical innovation in comparison to other	
	medication available, considering information of dosage per week or ease in route of	
	administration. Advantages in route of administration were based on the following hierarchy:	
	oral > subcutaneous or intradermic > intramuscular > intravenous (with the first options considered	
	to be preferable to the latter ones).	

Binary variable: variable assuming values 0 or 1, according to the characteristics attributable to the case in analysis, indicating the effect of the characteristic described on the rate of adoption; CEAF: Brazilian Program for Specialized Pharmaceutical Services; ICD-10: 10th revision of the International Classification of Diseases; NA: non-applicable; PCDT: clinical protocol and therapeutic guideline; PMC: maximum price for consumers. Source: prepared by the authors, based on synthesis of documental research at the Brazilian Ministry of Health.