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Children affected with HIV/AIDS: Information of HIV/AIDS in five Colombian cities*

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SUMMARY

Objectives: To describe information about HIV/AIDS in a youth population under 18 years of age affected with HIV/AIDS and caregivers in five Colombian cities: Cali, Buenaventura, Barranquilla, Santa Marta, and Cartagena.

Methods: 286 personal surveys were conducted: 11 of children who were aware of their status of involvement with HIV/AIDS and 275 of caregivers of children who did not know their status of involvement with HIV/AIDS. The surveys were conducted in health institutions in the State and private sectors and private, using instruments in line with training programs from participating institutions to inquire about HIV/AIDS. Descriptive analysis was performed of the data and tabulation was done with the SPSS program.

Results: Most children who knew their status of involvement with HIV/AIDS report that by acquiring the HIV virus, they may develop other diseases; however, half of these fail to recognize that AIDS weakens the body's ability to fight infection. The children surveyed partly recognized the HIV/AIDS transmission and treatment mechanisms, while caregivers possess adequate information on the disease. We found reasons to delay the delivery of diagnosis by caregivers 96.2% (N=275) related to avoiding psychological harm to the children, and that if they were to know said status, they might inadvertently disclose this to others, probably exposing them to stigma and/or discrimination. Likewise, professionals providing health services to HIV seropositive children express lack of training regarding the proper procedure and age to reveal such information.

Conclusions: It is a priority to enhance the capacity, information, and education of patients about effects, characteristics, manifestations, and treatment of the disease within the comprehensive health management processes conducive to supporting affected families.

Keywords: HIV seropositive; Acquired immunodeficiency syndrome; Information about HIV/AIDS; Patient education as subject; Childhood population.

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Niñez afectada con VIH/SIDA: Información sobre VIH/SIDA en cinco ciudades colombianas

RESUMEN

Objetivos: Describir información sobre VIH/SIDA en población infantil afectada y menor de 18 años y cuidadores en cinco ciudades colombianas: Cali, Buenaventura, Barranquilla, Santa Marta y Cartagena.

Métodos: Se realizaron 286 encuestas personales: 11 a menores que conocían su situación de afectación para VIH/SIDA y 275 a cuidadores de menores que no conocían su situación. Las encuestas se llevaron a cabo en instituciones de salud de los sectores estatal y privado. Se usaron instrumentos que estuvieran de acuerdo con programas de capacitación de las instituciones participantes para indagar sobre VIH/SIDA. Se realizó un análisis descriptivo de los datos y tabulación en SPSS.

Resultados: La mayoría de los menores que conocían su situación de afectación para VIH/SIDA sostiene que al adquirir el virus del VIH pueden contraer otras enfermedades. No obstante, la mitad no reconoce que el sida debilita la capacidad del

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cuerpo para combatir las infecciones. Los menores reconocen parcialmente los mecanismos de transmisión y tratamiento del VIH/SIDA mientras que los cuidadores poseen información adecuada con respecto a la enfermedad. Se encontraron razones para retrasar la entrega del diagnóstico por parte de cuidadores [96.2% (N=275)] relacionadas con evitar daño psicológico al menor y que éste, al conocer su condición, la revele de manera involuntaria a otras personas, lo que probablemente lo exponga a estigma o a la discriminación. Asimismo, los profesionales que brindan servicios de salud a los menores seropositivos para VIH, expresan falta de capacitación con respecto al procedimiento y edad para revelar esta información.

Conclusiones: Es prioritario fortalecer las capacidades, información y educación de los pacientes sobre efectos de la enfermedad, características, manifestaciones y tratamiento dentro del manejo integral en salud que favorezca procesos de apoyo a familias afectadas.

Palabras clave: Seropositividad para VIH; Síndrome de Inmunodeficiencia Adquirida; Información sobre VIH/SIDA; Educación del paciente como asunto; Población infantil.

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The acquired immunodeficiency syndrome (AIDS) has claimed the lives of over 25-million people throughout the world, making it one of the most destructive epidemics in the annals of history¹. AIDS has become a worldwide emergency issue and one of the most serious challenges for human life and dignity^{2,3}.

Urgently diminishing and containing the propagation of this world epidemic requires universal access to joint prevention, treatment, and support. If the world moves this way to simultaneously and dynamically broaden HIV prevention, treatment, and attention, we could reach authentic integral criteria to approach AIDS, which curtails the epidemic and inverts its course^{4,5}.

Although the most recent international epidemiological data indicate that the world percentage of people living with HIV was established in 2000 and the estimated rate of mortality through AIDS diminished due to pharmacological advancements and access to anti-retroviral therapy, these tendencies are still unequal in different world regions. It is estimated that in 2007, there were 33-million [30.3-36.1-million] people living with HIV. Worldwide, the number of children under 15 years of age who live with HIV increased to

1.6-million (1.4–2.1 million) in 2001 to 2.0-million (1.9-million–2.3-million), while youth between 15 and 24 years of age represent 45% of the estimated new HIV infections⁶.

The development of the HIV/AIDS Programmed Management Model⁷ defines programs and actions for integral attention, access, and anti-retroviral medication supply to reduce the complications of the disease, as well as offers protection and permanent educational support to improve awareness, knowledge, and autonomous management of the disease for people living with HIV/AIDS. Knowledge and information on HIV/AIDS are considered priority factors to reduce vulnerability in high-risk populations, like children, adolescents, and their families, as well as for the population already affected by the disease.

In this sense, the purpose of this article is to describe information on HIV/AIDS in children and adolescents under 18 years of age with HIV/AIDS and their caregivers from public and private healthcare institutions in five Colombian cities: Cali, Buenaventura, Barranquilla, Santa Marta, and Cartagena. Aside from describing the information about what the HIV/AIDS disease is, along with its transmission and treatment mechanisms in the affected population, this research identified difficulties related with the process of disclosing the diagnosis of seropositivity for HIV/AIDS to Colombian minors by their caregivers and by the team offering them health services.

METHODS

A quantitative and qualitative descriptive study was undertaken, targeting children and adolescents under 18 years of age who knew they were affected by HIV/AIDS and whose caregivers consented their participation in the study, and caregivers of children and adolescents who were not aware of their being affected by HIV/AIDS, from public and private healthcare institutions in five Colombian cities: Cali, Buenaventura, Barranquilla, Santa Marta, and Cartagena.

According to international definitions on the concept of childhood affected by HIV/AIDS, participating minors must comply with the following affectation categories as criteria of population inclusion, non-excluding amongst themselves:

1. HIV/AIDS seropositive and/or seronegative children

- and adolescents, orphaned by HIV/AIDS (father, mother, or both deceased because of the disease).
- 2. HIV seropositive children and adolescents.
- HIV seropositive and/or seronegative children and adolescents, cohabitating with HIV seropositive individuals.

A non-probabilistic sampling by quotas was done, whose size per city was determined by the criteria of experts in the participating cities and given the under registration and the disparity of the figures in the childhood and adolescent population affected by HIV/AIDS in our nation, a quota of up to one-hundred (100) surveys was determined, along with three (3) focal groups per city.

According to population inclusion criteria and to conditions relevant to these types of studies mainly related to the political will of the institutions lending health services to youth populations affected by HIV/AIDS and, with the participation consent of the subjects in the study, 286 personal surveys were conducted; 11 of which were done on children and adolescents affected with HIV/AIDS who were aware of their HIV seropositive diagnosis and whose caregivers consented to their participation in the study, and 275 surveys to caregivers of children and adolescents affected with HIV/AIDS who were not aware of their HIV seropositive diagnosis.

In the same manner, 15 focal groups were carried out with three different populations:

- 1. Children and adolescents who were aware of their HIV seropositive diagnosis and whose caregivers consented to their participation in the study.
- 2. Caregivers of children and adolescents who were not aware of their HIV seropositive diagnosis.
- 3. Workers at healthcare institutions lending services to HIV/AIDS-affected individuals.

The source of primary information was through a personal survey of the subjects in the study. The protocol, the informed consent form for caregivers of affected minors, and the agreement to participate form for the child to participate in the study were made available to the directives of the public and private healthcare institutions selected for institutional backing and to guarantee access to the population subject of the study.

The survey was structured to address sociodemographic and socioeconomic variables, and information on HIV/AIDS in children and adolescents and their

caregivers. Prior to the elaboration of the instrument, interviews were done with the interdisciplinary teams at the healthcare institutions participating in the study to determine the informative contents on HIV/AIDS received by the affected childhood population and their families. After establishing the common contents of the interventions in the five cities under study, an instrument was elaborated regarding what the HIV/AIDS disease is, and its transmission mechanisms and clinical management.

For adjusting the survey, a pilot test was run on a group of subjects who attended a foundation. The subjects participating in this phase did not reside in the cities of the Caribbean region selected for this study; this process permitted adjusting the scales and time of application of the instrument. A descriptive analysis was conducted of the data and the SPSS version 15 software in Spanish was used to process the information. Herein, we will present the information relating the dependent variable per participant subject and per city of study.

Ethics. Seeking to guarantee the ethical aspects of the research^{8,9}, the research protocol, the informed consent form, the agreement form for the child to participate in the study, and the instruments were submitted to evaluation by the ethics committees of the financing institutions and the institution executing the study; nevertheless, it must be cleared that the concepts of the financing institutions prevailed over the Research Ethics Committee in the area of healthcare at Universidad del Norte as the institution executing the study.

By employing the ethical norms of the institutions financing the study, we kept in mind the legal capacity to grant consent thus, we obtained the informed consent form from caregivers of children and adolescents under 18 years of age affected by HIV/AIDS; preserving the right to privacy and intimacy, the confidentiality of the information gathered during the research process, and maintaining the anonymity of the information obtained at the moment of making public any information relevant to healthcare derived from the research, mainly reserving the names or identities of the subjects concerned; the agreement to participate form was only requested from children who were aware of their situation of affectation for HIV/AIDS.

The process of obtaining the informed consent for the current study gathered three basic characteristics: sufficient information, understanding, and voluntariness. The information received by the study participants included the objectives and the methodology of the study; possible benefits and risks, as well as potential advantages, inconveniences, or damages of their participation in the study and how to compensate for these or repair them. They were also informed of their participation in the study being voluntary, of the possibility of abandoning without furnishing explanations and without affecting the quality of the healthcare assistance lent by the institution. Participants were informed of the restrictions to accessing the data by third parties, procedures to safeguard confidentiality, and how the results would be published. In this sense, it was remarked that risks would not be monetarily compensated but by doing everything possible to minimize them and that what would be compensated would not be the risks but the inconveniences and the time lost. Because of the low earnings of the participants, transportation costs were covered for those subjects who attended the personal survey and the focal groups at times not coinciding with their regular medical appointments; for the city of Santa Marta, in addition to transportation coverage, the foundation offered food incentives for those who participated in the research process. Lastly, researchers assigned to data collection manifested their identity, possible conflicts of interest, address, telephone number, and other contact information, and their willingness to respond to any matter that could arise during the course of the research.

RESULTS

Most 90.9% (N=10/11) of the children who knew of their situation of affectation for HIV/AIDS hold that upon acquiring the HIV virus, they can contract other illnesses; nevertheless, half 45.4% (N=5/11) are not aware that AIDS weakens the body's capacity to fight infections (Table 1). The following opinions obtained from the focal groups illustrate the aforementioned:

«...Well, I think HIV is a virus that enters the body, that it is difficult to come out, but if one takes the medication, taking it at the right time, and doesn't stop taking it every day one will have much quality of life, and that now the individual who dies of HIV is because that

individual wants to die, because now there antiretroviral medications that one can take to be able to live more ...». (Interview of a 13-yearold Seropositive Adolescent, Barranquilla, 2006)

«...I think it is a very bad illness because I don't know how it saddens people so much when they have that illness, but little if the person reacts, there is improvement little by little and if the medicine is taken at the right time the virus will be dormant, and it's as if you didn't have it...» (Interview of a 14-year-old Seropositive Adolescent, Barranquilla, 2006)

In relation to mechanisms of HIV/AIDS transmission, 45.4% (N=5/11) children aware of their situation of affectation for HIV/AIDS recognize that the illness is transmitted through four mechanisms: sexual relationships without protection, blood transfusions, use of infected syringes, and from mother to child. 27.3% (N=3/11) of the children identify two mechanisms: sexual relationships without protection and blood transfusions; another smaller group 9.1% (N=1/11) also considers these two mentioned mechanisms, as well as the use of infected syringes; while another minor group 9.1% (N=1/11) considers the same two mechanisms, as well as the vertical transmission. Only one child reported not knowing the transmission mechanisms for HIV/ AIDS. According to the aforementioned it may be noted that children (N=11) who were aware of their situation of affectation for HIV/AIDS mainly identify sexual relations without protection and blood transfusions as the principal transmission mechanisms for HIV/AIDS (Table 1).

With respect to the information the children have on HIV/AIDS treatment, 45.5% (N=5/11) hold that antiretroviral medication and viral load/CD4 T-lymphocyte count tests are required; 27.3% (N=3/11) of the children consider that treatment consists only of administering anti-retroviral medication, and 9.1% (N=1/11) feel that only viral load/CD4 T-lymphocyte count tests are needed; 2 children (18.1%) reported not having information with respect to HIV/AIDS treatment (Table 1).

Most caregivers 96.2% (N=275) of children who were aware of their situation of affectation for HIV/AIDS had adequate information with respect to the nature of the illness, its transmission mechanisms, and treatment

Table 1
Information on HIV/AIDS in children and adolescents aware of their situation of affectation for HIV/AIDS per city

Category	s tne iliness: ao C1*		es AIDS weake C2		en the body's C3		C4		C5		Total	
Category	N	%	N	%	N	%	N	- %	N	%	N	%
True	1	33.3	1	100	1	50.0	2	66.7	1	50.0	6	54.6
False	2	66.7	N/A	N/A	1	50.0	N/A	N/A	N/A	N/A	3	27.3
Does not know	N/A	N/A	N/A	N/A	N/A	N/A	1	33.3	1	50.0	2	18.1
What is	the illne	ss: can	people	who ha	ave cor	ntracte	d HIV ac	quire o	ther illn	esses? (N=11)	
Category	C1		C2		C3		C4		C5		Total	
	N	%	N	%	N	%	N	%	N	%	N	%
True	3	100	1	100	2	100	2	66.7	2	100	10	90.9
False	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Does not know	N/A	N/A	N/A	N/A	N/A	N/A	1	33.3	N/A	N/A	1	9.1
	Т	ransmis	sion m	echanis	sms: ca	an HIV	be cont	racted?	(N=11)			
Category	C	21	C2		C3		C4		C5		Total	
	N	%	N	%	N	%	N	%	N	%	N	%
All of the prior	3	100	N/A	N/A	1	50	N/A	N/A	1	50	5	45.4
Only through 1												
and 2	N/A	N/A	1	100	N/A	N/A	2	66.7	N/A	N/A	3	27.3
Only through 1,												
2 and 4	N/A	N/A	N/A	N/A	1	50	N/A	N/A	N/A	N/A	1	9.1
Only through 1,												
2 and 3	N/A	N/A	N/A	N/A	N/A	N/A	1	33.3	N/A	N/A	1	9.1
Does not know	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	50	1	9.1
Manager							•				(N=11)	
Category	C1		C2		C3		C4		C5		Total	
	N	%	N	%	N	%	N	%	N	%	N	%
CD4 Viral Load	N/A	N/A	N/A	N/A	N/A	N/A	1	33.3	N/A	N/A	1	9.1
ART	N/A	N/A	1	100	N/A	N/A	N/A	N/A	2	66.7	3	27.3
Both	3	100	N/A	N/A	2	100	N/A	N/A	N/A	N/A	5	45.5
Does not know	N/A	N/A	N/A	N/A	N/A	N/A	2	66.7	N/A	N/A	2	18.1

^{*} C1 Cali; C2 Buenaventura; C3 Barranquilla; C4 Santa Marta; C5 Cartagena

Table 2
Information on HIV/AIDS from caregivers of children and adolescents not aware of their situation of affectation for HIV/AIDS per city

their situation of affectation for HIV/AIDS per city													
What is the illness: does aids weaken the body's capacity to fight infections? (N=275)													
Category		C1*	C2		C3		C4		C5		Total		
	N	%	N	%	N	%	N	%	N	%	N	%	
True	37	84.1	6	75.0	75	76.5	42	73.7	57	83.8	217	78.9	
False	4	9.1	N/A	N/A	14	14.3	5	8.8	2	2.9	25	9.1	
Does not know	3	6.8	2	25.0	9	9.2	10	17.5	9	13.2	33	12.0	
What is t	he illne	ss: can r	eople	who ha	ve coi	ntracted	I HIV acc	auire ot	her illn	esses? (N=275)		
Category		C1	-	C2 C			•			;5	Total		
	N	%	N	- %	N	%	N	%	N	%	N	%	
True	41	93.2	7	87.5	94	95.9	53	93.0	63	92.6	258	93.8	
False	1	2.3	N/A	N/A	1	1.0	2	3.5	2	2.9	6	2.2	
Does not know	2	4.5	1	12.5	3	3.1	2	3.5	3	4.4	11	4.0	
	Т	ransmiss	sion me	echanis	ms: c	an HIV b	e contr	acted?	(N=275)			
Category	(C1	С	C2 C3			C	4	C5		Total		
-	N	%	N	%	N	%	N	%	N	%	N	%	
All of the prior	38	86.4	7	87.5	89	90.8	37	65.0	35	51.5	206	75.0	
Only through 1	00	00.4	•	07.0	00	50.0	01	00.0	00	01.0	200	70.0	
and 2	6	13.6	1	12.5	7	7.1	16	28.0	26	38.3	56	20.3	
Only through 1,													
2 and 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Only through 1,													
2 and 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Does not know	N/A	N/A	N/A	N/A	2	2.1	4	7.0	7	10.2	13	4.7	
Managon	ont of	the illnes	e: wha	t doos	the tre	atmont	againet	· 山۱\//AII	78 con	eist of?	N-275\		
Category		C1		2		the treatment against HIV C3 C4			C5			Total	
outogoty	N	%	N	- %	N	%	N	%	N	%	N.	%	
CD4 Viral Load	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
ART	N/A	N/A	N/A	N/A	12	12.3	3	5.2	12	17.6	27	9.8	
Both	44	100.0	8	100.0	82	83.7	45	79.0	44	64.8	223	81.1	
Does not know	N/A	N/A	N/A	N/A	4	4.0	9	15.8	12	17.6	25	9.1	

^{*} C1 Cali; C2 Buenaventura; C3 Barranquilla; C4 Santa Marta; C5 Cartagena

Subjects (N=286)	C1*		C2		C3		C4		C5		Total	
• , ,	N	%	N	%	N	%	N	%	N	%	N	%
Children	3	27.3	1	9.0	2	18.2	3	27.3	2	18.2	11	3.8
Caregivers	44	16 .0	8	3.0	98	35.6	57	20.7	68	20.7	275	96.2
Total	47	100.0	9	100.0	100.0	100.0	60	100.0	70	100.0	286	100.0

Table 3
Subjects per city of study

(Table 2). The results indicate that 78.9% (N=217) of the caregivers know that AIDS weakens the body's capacity to fight infections, as opposed to 21.1% (N=58) who were not aware of this level of affectation of the illness. 93.8% (N=258) of the caregivers stated that individuals who had contracted the virus can acquire other illnesses.

Related to the virus transmission mechanisms awareness by the caregivers, an important percentage, 75% (N=206), recognizes four forms of HIV transmission, opposed to 20.3% (N=56) who recognize only the mechanisms: sexual relations without protection and blood transfusions. Some 4.7% (N=13) of the caregivers do not know the HIV/AIDS transmission mechanisms (Table 2).

81.1% (N=223) of the caregivers stated that HIV treatment consisted of performing viral load / CD4 T-lymphocyte count tests and prescribing anti-retroviral therapy (ART). The following testimonial reveals this:

«...At the Casa Gami Foundation, they had some workshops for 4 Saturdays with Doctor Lina, the Psychologist, the Nutritionist, and they advise you on how to take the medications, the schedules, all that. At least for me, those workshops were very useful ...» (Focal Group of Legal Guardians in Cali, 2006).

For the study group (Table 3) without awareness of their situation of affectation for HIV/AIDS, the current study identified the reasons why caregivers and healthcare professionals delay disclosing the diagnosis to the HIV/AIDS seropositive children. The caregivers manifested not opting to reveal the serologic status for HIV, seeking to protect the children against psychological damage or emotional stress that could be caused by knowing of the illness and for fear that once these

children knew of their condition, they would inadvertently reveal such to other people, which would probably expose them to stigma, rejection, and/or discrimination. Professional lending healthcare services to the affected population reported not feeling trained on the issue of the proper procedure and age to deliver this information. The following testimonials illustrate the difficulties inherent to the process of disclosing the diagnosis of HIV/AIDS in children:

«...the children know they are ill, I manage for them an illness quite different to what they have and, thus, I tell them they have to take the medication for the illness they have, they may know they are sick and that they have X illness, but they don't really know what they have ...» (Healthcare Providing Institution Psychologist, Focal Group of Workers in Cartagena, 2006).

«...the child I am treating still does not know, although he asks many questions. But due to fear I have not told him anything, I don't know how he will react. I told the physician and she suggested I speak to him little by little; I have AIDS and the boy asks me: «what do you have?», and I tell him playfully: «dear, it is something like AIDS». He also asks about the constant medical appointments he has to attend ...» (Focal Group of Legal Guardians in Cartagena, 2006).

»...I need help because it is difficult for me to tell her. Because the girl asks me daily: «Why do I have to take so much medicine?», and I answer her that if she doesn't, she won't get well. At 12 years of age, she has to be told the truth ...»

^{*} C1 Cali; C2 Buenaventura; C3 Barranquilla; C4 Santa Marta; C5 Cartagena

(Focal Group of Legal Guardians in Cartagena, 2006).

DISCUSSION

The results previously exposed indicate the difficulties experienced by healthcare professionals, parents and/or caregivers of HIV/AIDS seropositive children and adolescents with respect to the process of revealing the diagnosis.

In the international context, the Guidelines of the American Pediatric Academy on disclosure of the HIV illness have received special attention. These guidelines hold that all adolescents must know their diagnosis and that disclosure must be considered for school-age children, bearing in mind their age, level of cognitive development, psychosocial maturity, complexity of the family dynamics, and the clinical context¹⁰.

With development, it is considered adequate that elderly children and adolescents be aware of their diagnosis, given that with education and emotional support they can eventually have more control over the process of their illness; this being more imperative for adolescents to keep from, unknowingly, exposing others during sexual activity¹¹.

Two main factors emerged in the current study associated to barriers for disclosure of the diagnosis to children and adolescents who are seropositive for HIV/AIDS: the preoccupation of the parents or caregivers on the possible impact or emotional damage the disclosure could cause to the child. In other words, fears from the parents or the caregivers about the possible negative psychological consequences of the disclosure like: angst, depression, anxiety, and isolation. These data are consistent with the studies¹²⁻¹⁹.

Also, there is fear that the involuntary disclosure by the child to others may lead to possible situations of stigma, discrimination, or ostracism of the child and family. In other words, parents or caregivers consider that the child is not capable of keeping the diagnosis secret. These data are consistent with the findings reported^{12,13,16,17,19-21}.

Pediatric patients with HIV and AIDS now live longer with improved quality of life, which makes disclosure an essential process, which is why the guidelines by the American Pediatric Academy on disclosing the HIV illness indicate that all adolescents should know of their serologic status and that disclosure should be considered for school-age children¹⁰.

The results reveal that children and adolescents who are aware of their HIV/AIDS seropositive diagnosis need to enhance the information with respect to the HIV chronic disease. The children and young adolescents in the study revealed having inconsistent or incongruent information with respect to the principal action of the HIV virus. Half the children recognized as false that AIDS weakens the body's capacity to fight infections, although most of them stated that by being infected by the HIV virus, they could acquire other illnesses.

Equally, when asked about the treatment for the illness, half the children do not know that the anti-retroviral therapy is accompanied by tests to evaluate the viral load and the CD4 T- lymphocytes. As for the information the children have about HIV/AIDS transmission mechanisms, half of these only partially identify them.

Also, parents and/or caregivers of children affected by HIV/AIDS recognize and have more precise information with respect to the illness, maintaining some percentages of parents and/or caregivers who are still unaware of some basic aspects of the illness.

These results suggest the importance of enhancing training processes within healthcare institutions lending services to families affected by HIV/AIDS, as well as the importance of designing and implementing a clinical model for disclosure of the diagnosis, developmentally adequate to overcome the barriers or fears of parents and/or caregivers and healthcare professionals.

Conflict of interest. None of the authors has conflicts of interest related to this study.

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