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Ecological model by urie bronfenbrenner

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Samsu Alam Ecological Systems Theory (EST), also known as human ecology, is an ecological/ system framework developed in 1979 by Urie Bronfenbrenner (Harkonen, 2007). Harkonen notes that this theory was influenced by Vygotsky's socio-cultural theory and Lewin's behaviorism theory. Bronfenbrenner's research focused on the impact of social
interaction on child development. Bronfenbrenner believed that a person's development was influenced by everything in the surrounding environment and social interactions within it. EST emphasizes that children are shaped by their interaction with others and the context. The theory has four complex layers called systems, commonly used in
research. At first, ecological theory was most used in psychological research; however, several studies have used it in other fields such as law, business, management, teaching and learning, and education. Previous Studies EST has been used in many different fields, however, commonly, it is used in health and psychology, especially in child
development (e.g., Heather, 2016; Esolage, 2014; Matinello, 2020). For instance, Walker et al. (2019) used an EST framework to examine risk factors for overweight and obese children with special needs in terms of weight and
obesity. They found that microsystem such as school, family home, and extracurricular activities can impact overall health through physical activities and food selectivity. Furthermore, the second layer, mesosystem (e.g., family dynamic and parental employment), also can lead to an increase in children's weight because of a lack of money to buy
nutritious food. In addition, children may be socially isolated and excluded in ways that cause stress, and their parents might use food to reinforce or comfort them. The third layer the study adopted was the macrosystem. For example, some cultures discriminate against children with disabilities so that they face more difficulty gaining access to health
services. In the field of language teaching, Mohammadabadi et al. (2019) researched factors influencing language teachers at different levels. They adopted the four systems from Bronfenbrenner's theory for studying the issue. This study found that the
ecological systems affect language teaching. For example, the microsystem included a direct influence on teachers' job satisfaction, and linguistic proficiency. The mesosystem defined interconnections between teachers' collaboration and their prior learning
experience. The exosystem included the teaching program and curriculum and teachers' evaluation criteria, while the macrosystem addressed the government's rules, culture, and religious beliefs. In other words, researchers use EST to guide the design of their studies and to interpret the results. Model of EST Concepts, Constructs, and Propositions
The four systems that Brofenbrenner proposed are constructed by roles, norm and rules (see Figure 1). The first system is the microsystem as the innermost system is the microsystem as the innermost system is client and rules (see Figure 1). The first system is defined as the most proximal setting in which a person is situated or where children directly interact face to face with others. This system includes the home and
child-care (e.g., parents, teacher, and peers). The second is the mesosystem. The mesosystem is an interaction among two or more microsystems where children actively participate in a new setting; for instance, the relationship between the family and school teachers. The third is the exosystem. This system does not directly influence children, but it
can affect the microsystem. The effect is indirect. However, it still may positively or negatively affect children directly; however, it can impact all the
systems such as economic, social, and political systems. The influence of the macrosystem is reflected in how other systems, such as family, schools, and the neighborhood, function (Kitchen et al., 2019). These four systems construct the EST which considers their influences on child or human development. Bronfenbrenner (cited in Harkonen, 2007)
noted that those environments (contexts) could influence children's development constructively or destructively. As the proposition, the system influences children or human development in many aspects, such as how they act and interact, their physical maturity, personal characteristics, health and growth, behavior, leadership skills, and others. At
the end of the ecological system improvement phase, Bronfenbrenner also added time (the chronosystem) that focuses on socio-history or events associated with time (Schunk, 2016). In summary, the views of this ecological paradigm is that environment, social interaction, and time play essential roles in human development. Using the Model There
are many possible ways to use the model as teachers and parents. For teaching purposes, teachers and school administrators to develop school environments that are suitable to students' needs, characteristics, culture, and
family background (Taylor & Gebre, 2016). Because the model to increase students' academic achievement and education attainment by involving parents and observing other contextual factors (e.g., students' peers, extra-curricular activities, and neighbor)
that may help or inhibit their learning. Furthermore, the EST model can support parents to educate and guide their children in choosing their friends and finding good neighborhoods and schools. Additionally, they can build close connections to teachers, so they know their children in choosing their children. It can prompt parents to educate and guide their children in choosing their children in choosing their children.
involving themselves in schools, parents can positively influence their children's educational context (Hoover & Sandler, 1997). For research purposes, researchers also can develop questionnaires from the components or concepts and
construct of EST. Additionally, the four levels of EST can be used by researchers to frame qualitative, quantitative, and mixed research (Onwuegbuzie, et.al., 2013). Conclusion At first, EST was used in children's development studies to describe their development in their early stages influenced by the person, social, and political systems. Currently,
EST is broadly applied in many fields. Schools or educational institutions can use EST to improve students' development outcomes. References Esolage, D. L. (2014). Ecological theory: Preventing youth bullying,
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Diana Lemos3 Division of Adolescent Medicine, John H. Stroger, Jr. Hospital of Cook County, Chicago, ILFind articles by Jaime MartinezAuthor information DisclaimerThis study qualitatively examined the social-ecological stressors that youth experience during the first year following an HIV diagnosis. Thirty HIV-
positive youth (16 males, 14 females) between the ages of 16-24 participated in either focus groups or individual interviews. All sessions were transcribed and themes were identified through cross-case and comparative analyses. Participants reported experiencing stressors within multiple social-ecological systems, including interactions with their
families, sexual partners, health care providers, work, and school. The results from this study highlight the need for youth-focused services that assist with multiple layers of stressors. Keywords: HIV/AIDS, youth, psychological stressors. In the United States, it is estimated that 15% of all new HIV.
infections are among people under 25 years of age, and the vast majority of these infections are a result of sexual activity (Centers for Disease Control and Prevention [CDC], 2006; The Joint United Nations Program on HIV/AIDS [UNAIDS], 2004). In the 35 states with long-term confidential name-based reporting through 2004, 62% of the 17,824
adolescents between the ages of 13-24 who were given either an HIV or AIDS diagnosis were males and 38% were females (CDC, 2005). Young men who have sex with men (YMSM) represent the largest group of males between the ages of 13-24 living with HIV and AIDS, and their rates of infection are increasing at alarming rates; especially among
African American and Latino youth (CDC, 2005; Garofalo & Harper, 2003; MacKellar et al., 2005; Valleroy, MacKellar et al., 2006; Wolitski, Valdiserri, Denning, & Levine, 2001). Female adolescents of color also have disproportionately higher rates of infection with HIV than White females, especially those living in low-income
urban environments (Aral, 2001; CDC, 2005; Krieger, Waterman, Chen, Soobader, & Subramanian, 2003). These epidemiological data demonstrate that despite multiple prevention efforts aimed at thwarting the spread of HIV, significant numbers of adolescents and young adults are still becoming infected with HIV on a consistent basis. Once these
youth receive their HIV diagnosis, they must contend with adjusting to the news that they are now living with a chronic health conditions like asthma or diabetes, those living with HIV also must contend with high levels of social stigma that may
result in discrimination and oppression, as well as negative societal messages that place blame on them for the acquisition of their disease (Greene & Banjeree, 2006; Rao, Ketwaletswe, Hosek, Martinez, & Rodriguez, 2007). Adolescents who test positive for HIV are often confronted with a myriad of stressors as they struggle with normal adolescent
developmental issues while carrying the burden of living with a highly stigmatized and life-threatening illness. Prior research focused on adolescents living with other chronic and terminal illnesses has provided strong evidence regarding the difficulty youth have adjusting to their diagnosis, particularly in the areas of developmental tasks,
psychological functioning, and medical management (Gavaghan and Roach, 1987; Lavigne and Faier-Routman, 1992; Sayer, Hauser, Jacobson, Willett, & Cole, 1995; Wallander & Thompson, 1995). For adolescents and young adults living with HIV, unique difficulties may arise due to the highly stigmatized nature of their illness, which will interfere
with their ability to adjust and cope with their diagnosis (Brown, Lourie, & Pao, 2000; Rao et al., 2007). One common stressor among adolescents living with HIV is the experience of negative affective states, such as depression and anxiety (Hosek, Harper, & Domanico, 2000). Poorer psychological functioning can not only result in decreased quality of
life and impaired social functioning, but has also been associated with increased participation in sexual and substance use risk behaviors (Murphy et al., 2001), as well as decreased adherence to anti-retroviral therapies (Hosek, Harper, & Domanico, 2005; Murphy, Wilson, Durako, Muenz, & Belzer, 2001) among adolescents living with HIV. Given the
continued stigma associated with HIV, many of these youth are apprehensive about disclosing their HIV status to parents, friends, and sexual partners (Hosek, Harper, & Robinson, 2002; Rao et al., 2007). In addition to the lack of social support associated with not disclosing to family/close friends, fear of the negative impact of disclosure among
adolescents living with HIV has also been associated with poorer adherence to medical regimens (Pugatch, Bennett, & Patterson, 2002). Given the potential for negative psychological and medical outcomes associated with the stress of receiving an HIV diagnosis, interventions are urgently needed to assist adolescents who are newly diagnosed with
HIV to adjust to their disease status. Before effective interventions that meet the specific psychosocial and developmental needs of adolescents newly diagnosed with HIV can be developed, formative research is needed to better understand the range of stressors that impact youth during the initial year of their diagnosis. This research will best be
guided by frameworks and models that account for the complexity of adolescent development. Urie Bronfenbrenner's Ecological Systems Theory of Human Development (1979) examines the complex interactions and relationships between an individual and his/her multiple social and physical surroundings during adolescent development. The
 interactions that individuals have with others and with these various environments are seen as key to human development. Bronfenbrenner (1979) identifies four ecological systems: the microsystem, the exosystem, the exosystem, the macrosystem. The microsystem (i.e., family, school, peers) is the immediate environment in which a person is
operating. When microsystems interact, a mesosystem is formed and encompasses the relationship between two or more settings (i.e., relationship between parents, caregiver's place of
employment, local media, community agencies). For example, an adolescent does not have a direct decision-making role in his/her parents' relationship, but an argument between them may directly impact the adolescent. The final ecological system identified by Bronfenbrenner (1979) is that of the macrosystem. The macrosystem consists
of larger societal structures and values (i.e., social, cultural, political, religious) that do not directly impact the life of an individual adolescent, but rather society as a whole. More recently, Bronfenbrenner (1986) proposed an additional system, the chronosystem, which examines over time the influence of environmental changes on an individual's
development. The chronosystem focuses on "normative" (i.e., entering school, puberty, marriage) and "non-normative" (i.e., death, divorce, chronic illness) transitions that can occur across the lifespan and may indirectly impact development by affecting family processes. These ecological systems are interactive and are characterized by roles,
relationships, and norms. The relationship and interactions between these structures change as a function of development (Muuss, 1996). According to Bronfenbrenner (1979, 1986), when the relationship and interactions between different microsystems is compatible, development progresses smoothly. For example, when role expectations are similar across school and
home, it is expected that youth will perform better than if substantial differences in role expectations occur across settings. Kazak, Segal-Andrews, and Johnson (1995) have applied the Bronfenbrenner model to the ecological system of the chronically ill child. In this model, the microsystem extends to include the disease itself since it places demands
on both the child and the family. The mesosystem considers the interactions between caregivers and hospitals as well as the health-care team. The exosystem is primarily a consideration of the parents' or care-givers' social networks and the extent to which the disease impacts those networks. Finally, the macrosystem includes laws and policies that
may directly impact the care and services available to children with pediatric illness. While Kazak and colleagues' (1995) application of the social-ecological model reflects the experience of chronically ill children, it may not apply directly to adolescents and young adults living with HIV. Many youth diagnosed with HIV are either young adults or
emancipated minors who lack a parental or caregiver support network. What may fall into a mesosystem or exosystem for a child with a caregiver, may actually be part of the socio-ecological model as it applies specifically to adolescents and
young adults living with HIV is warranted. The purpose of the current study was to better understand the subjective experiences of adolescents and young adults living with HIV during the first year of their diagnosis by exploring the challenges, strengths, and needed areas of support/assistance associated with receiving an HIV diagnosis. Elements of
 Bronfenbrenner's (1979, 1986) Ecological Systems Theory of Human Development and Kazak et al.'s (1995) social-ecological model of chronically ill children guided both the data collection and analysis. This information was collected in order to create a socio-ecological model and understanding of the myriad stressors that impact these youth during
the initial stages of accepting their HIV diagnosis. Findings from this study will guide the development of a psychosocial intervention aimed at improving adjustment to HIV diagnosis among adolescents and young adults recently diagnosed with HIV participated in
either focus groups or individual interviews. All participants were behaviorally-infected and had been aware of their HIV diagnosis for 12-24 months, with an average of 16.7 months (SD 4.89). They ranged in age from 16 to 24 years, with a mean age of 21.5 (SD 2.2). The gender composition of the sample was balanced, with 14 females and 16 males.
The ethnic composition was distributed across three groups and represented the disproportionate number of Black and Hispanic (6 female, 7 male), and 2 White (2 male). Youth were recruited from Adolescent Medicine Trials Units involved in the Adolescent
Medicine Trials Network for HIV/AIDS Interventions (ATN) located in Chicago, New York, and San Juan, Puerto Rico to participate in either focus groups or individual interviews. This study was approved by the Institutional Review Boards of all three participating sites. Each participant received compensation for their time as well as transportation
costs associated with the focus groups/interviews (the amount of compensation was determined by each ATN site's IRB). Participation if they had received their diagnosis within 12 to 24 months of
the study visit date. This criteria was selected in order to recruit key informants that had received their diagnosis, but also had enough distance from that first year so that they could be more introspective when recalling the stressors associated
with that time period. Youth were informed of the nature of such material. Written informed of the confidential nature of such material. Written informed of the confidential nature of such material. Written informed of the confidential nature of such material.
setting, they were offered the option of participate in an individual interview if they did not feel comfortable being a part of a focus group due to scheduling conflicts were also offered the option to participate in an individual interview. Participants were recruited
sequentially and focus groups were convened once a minimum of 4 youth had agreed to participate. Four gender-specific focus groups were completed (Table 1). All groups and interviews took place in private rooms and were audiotaped.
and facilitators took additional process and content notes. Each focus group was co-facilitated by two trained interviews were conducted by the same trained interviewers. The focus groups and interviews were conducted interviews were conducted interviews were conducted interviews were conducted by the same trained interviewers.
either English or Spanish, depending on the comfort level and language preference of the participants. Interviewers followed a semistructured guide, which was identical for both focus group/interview guide asked about general critical areas
of stress (e.g., "tell me what you think were the most difficult issues you had to deal with during the first 6 months after receiving your diagnosis"), coping, and support (e.g., tell me what you think would have helped you to adjust to living with HIV.
Participants were also asked about the most challenging physical/medical and psychosocial aspects for youth living with HIV.Interview Type, Gender, and Race of Participants by ATN SiteATN SiteBronx, NY (N = 12)Chicago, IL (N = 10)San Juan, PR (N = 8)Interview Type, Gender, and Race of Participants by ATN SiteBronx, NY (N = 12)Chicago, IL (N = 10)San Juan, PR (N = 8)Interview Type, Gender, and Race of Participants by ATN SiteBronx, NY (N = 12)Chicago, IL (N = 10)San Juan, PR (N = 8)Interview Type, Gender, and Race of Participants by ATN SiteBronx, NY (N = 12)Chicago, IL (N = 10)San Juan, PR (N = 8)Interview Type, Gender, and Race of Participants by ATN SiteBronx, NY (N = 12)Chicago, IL (N = 10)San Juan, PR (N = 8)Interview Type, Gender, and Race of Participants by ATN SiteBronx, NY (N = 12)Chicago, IL (N = 10)San Juan, PR (N = 8)Interview Type, Gender, and Race of Participants by ATN SiteBronx, NY (N = 12)Chicago, IL (N = 10)San Juan, PR (N = 8)Interview Type, Gender, and Race of Participants by ATN SiteBronx, NY (N = 12)Chicago, IL (N = 10)San Juan, PR (N = 8)Interview Type, Gender, and Race of Participants by ATN SiteBronx, NY (N = 12)Chicago, IL (N = 10)San Juan, PR (N = 8)Interview Type, Gender, and Race of Participants by ATN SiteBronx, NY (N = 12)Chicago, IL (N = 10)San Juan, PR (N = 8)Interview Type, Gender, and Race of Participants by ATN SiteBronx, NY (N = 12)Chicago, IL (N = 10)San Juan, PR (N = 12)Chicago, IL (N = 10)San Juan, PR (N = 12)Chicago, IL (N = 10)San Juan, PR (N = 12)Chicago, IL (N = 10)San Juan, PR (N = 12)Chicago, IL (N = 10)San Juan, PR (N = 12)Chicago, IL (N = 10)San Juan, PR (N = 12)Chicago, IL (N = 10)San Juan, PR (N = 12)Chicago, IL (N = 10)San Juan, PR (N = 12)Chicago, IL (N = 10)San Juan, PR (N = 12)Chicago, IL (N = 10)San Juan, PR (N = 12)Chicago, IL (N = 10)San Juan, PR (N = 12)Chicago, IL (N = 10)San Juan, PR (N =
Male 574 Race White 020 Black 870 Hispanic 418 After initial review of the data by the authors and direct feedback from the focus group/interview data did not differ markedly. Given the content similarities of the data collected, and the overall
advantages of synthesizing mixed methods data to gain a richer understanding of a phenomena of interest by eliciting a broader range and individual interviews were combined for the analysis. Audiotapes of the focus groups/interviews were transcribed
verbatim, and all Spanish-language focus groups/interviews were translated from Spanish to English. Data analysis was conducted by three members of the research team, two of whom were interviewers who collected the data. Analysts coded and analysis meetings to review the developing
concepts and themes, and to develop consensus across the three analysis. The team kept data analysis meeting minutes and themes, and to document the initial and development of concepts and themes, and to document the initial and development of concepts and themes, and to document the initial and development of concepts and themes, and to document the initial and development of concepts and themes, and to document the initial and development of concepts and themes, and to document the initial and development of concepts and themes, and to document the initial and development of concepts and themes, and to document the initial and development of concepts and themes, and to document the initial and development of concepts and themes, and to document the initial and development of concepts and themes, and to document the initial and development of concepts and themes, and to document the initial and development of concepts and themes, and to document the initial and development of concepts and themes, and the document the initial and development of concepts and the document the initial and development of concepts and the document the initial and development of concepts and the document the initial and development of concepts and the document the initial and development of concepts and the document the initial and development of concepts and the document the document of concepts and the document the document the document of concepts and the document the document of concepts and the document the document the document of concepts and the document the document of concepts and the document the document the document of concepts and the document the document of concepts and the document the document the document of concepts and the document the document of concepts and the document the document the document of concepts and the document the document of concepts and the document of
text, and conducting cross-case analysis. After reading and reviewing the transcripts individually, members of the analysis team generated codes which were discussed during team meetings and modified based on group consensus. From this, the protocol team developed a coding structure, (i.e., a hierarchical set of constructs that account for the
phenomena seen in the data) and then further developed and refined the list of codes as additional transcripts were examined as they were presented in each individual interview, the analysis team conducted cross-case and comparative analyses. To do this, the team
identified consistent patterns in meaning, concepts, and themes across the focus groups/interviews (cross-case) and then examined comparative differences based on gender (Creswell, 1998; Miles & Huberman, 1994). Where gender differences based on gender (Creswell, 1998; Miles & Huberman, 1994).
approach to analysis was guided by a phenomenological framework as the team sought to understand the lives and stressors of adolescents newly diagnosed with HIV (Creswell, 1998; Patton, 1990). Our focus was on individual experiences and meanings given to those experiences, as well as shared experiences. At the core of this analytic approach is
the assumption that all findings are circumscribed by context, and that individuals (e.g., HIV+ youth) have unique realities within which and by which they live their values and behavior. The specific
approach to coding and analysis was inductive in nature since this procedure allows for the patterns, themes, and categories of analysis to emerge from the data (Patton). This procedure allows for an exploration of indigenous concepts and typologies.
analysis was deductive in nature, as the major themes were categorized according to elements of both Bronfenbrenner's (1979) Ecological Systems Theory of Human Development and Kazak et al.'s (1995) social-ecological model of chronically ill children. Adolescents revealed the most salient stressors they experienced and discussed how their lives
were impacted during the first year following their HIV diagnosis. The major themes around these system, exosystem, exosy
by the majority of participants, since one of the major strengths of qualitative research is the representation of different voices (Creswell, 1998). Illustrative phrases and quotes from the focus group/individual interviews are presented below along with the gender of the individual. For these youth, the adolescent's microsystem consisted of their direct
interactions with HIV, family, sexual partners/significant others, peers, health-care providers, work, and school and peers, work and significant others that may have caused aggravated stress among these youth. Additionally, the macrosystem
includes societal-level stigma and violation of privacy and confidentiality laws that youth reported caused stress during that critical period following diagnosis. The stressors within the microsystem as identified by the youth include systems that the youth interact with directly. Themes that emerged within this system include HIV disease, family, sexual
partners/significant others, peers, health-care settings, and work/school. Stressors Related to HIV Diagnosis Youth reported that receiving the HIV disease,
several subthemes emerged which include: (a) information related to HIV, (b) the manifestations of the illness, (c) medication, and (d) acceptance of the diagnosis. Many youth expressed that it was stressful for them to sort through and understand all of the information they were receiving about HIV and AIDS. Youth described being hyper-vigilant for
potential symptoms of the illness after receiving the HIV diagnosis, including feelings of panic over the slightest cold or cough. Youth reported having difficulty understanding the manifestations of the disease. They described fears related to disease progression, physical signs/symptoms, and prognosis and how the illness
would impact their future goals. I just got depressed, and I've basically had it embedded in my head that I was on borrowed time and I'm not gonna be able to get to do any of the things that I wanted to do with my life. -MaleAnother theme related to the HIV diagnosis was the challenges of taking HIV medications and dealing with demands of the
treatment, such as finding a safe and private place to store and take the medication, as well as figuring out how and when to take the medications is the fear that if that person knows...knows what the medications are or that they forget. -FemaleThose participants who
were not yet taking medication described their fear of taking the medication in the future and how it would impact their lives. Yes, how to take them... I have also seen how they deteriorate because of that [medication]. That gets me really scared. For real, it has
really frightened me. Having to get to that point, do you understand? -MaleThe final subtheme that emerged related to the HIV diagnosis was learning to accept the diagnosis was learning to accept the diagnosis was learning to accept the diagnosis. Disbelief was a common reaction to the HIV antibody test as many as three different times to confirm their HIV status. Other
participants struggled to accept the diagnosis because they did not look or feel sick. I'm like, how can I not know? I don't feel anything. I feel normal, but I was in denial for those additional two weeks. And I was like, how do you know I'm positive? Is there something you can see in me? I didn't get any counseling which I should of at that time. I didn't
-FemaleStressors Related to Family Youth from all focus groups and individual interviews revealed that family stressors were among the most common during the year following (a) disclosure, (b) misinformation, and (c)
rejection. Fear of disclosing their HIV diagnosis to family members was a common stressor reported by participants. One reason cited for this fear of disclosure was concern about how the parent would react to the news. Within this theme, youth reported being primarily concerned for the well-being of their parents who may worry excessively as a
result of the diagnosis. I mean my mom is my best friend in the whole world. And she knows everything about me. And she's gonna be sitting there and she's gonna be worrying, losing sleep and, I just, I don't know, I don't think I will ever
tell my mom. Because I don't think it's necessary for her to worry at this point. -MaleAnother stressful experience related to youth's disclosure to family is very religious so I guess I'm just afraid that I'll hear what I'm expecting to hear
Which is nothing good. Pentecostals are very difficult people and, especially my mom, so to tell her, it would be just like "that's what you get." -MaleMany adolescents felt like they were leading a double life living with HIV; like one youth remarked—"it's
confusing and it's just a headache." They were also concerned about family, they noticed a dramatic change in my personality during my first month, because I was withdrawn, I stayed in my room all the time...Watched TV. I cried a lot in the room. -FemaleThe
subtheme of misinformation on the part of both participants and family members was explained in terms of the lack of information was also associated with concerns that the family would associate
the HIV diagnosis with AIDS and death. I always worried, like I said, I didn't tell my parents. I'm living in their house and I'm eating off their forks and utensils, their plates. Should I tell them? You can't get it through saliva, I'm like should I do something extra to make sure I won't spread it to my family, because I don't want to be that kind of person.
FemaleFear of rejection or discrimination following disclosure was another common concern and tended to be related to the participants' experiences of observing family members' negative comments about HIV/AIDS and the people who
become infected. These observances from the youth led them to abstain from disclosure because they felt they would receive the same reaction from family members. My uncle, he was a transvestite or a transsexual, I should say, and he had it [HIV], too, and everybody in the family discriminated against him. Whenever he came to dinner, they were
throwing away the dishes he ate off of. When he went to the bathroom with bleach and when he passed they burned all of his belongings. And if they found out about me.... -FemaleStressors Related to Sexual Partners/Significant Others Participants discussed at great length the stressors related to romantic/sexual
partners or significant others. In general, participants reported experiencing anger toward their partner for concealing their
HIV status, their extramarital affairs, or in the case of females with male partner's undisclosed sexual relationships with other men. That's what I thought about my husband. I was thinking maybe he was sleeping with other men. That's what I thought about my husband. I was thinking maybe he was sleeping with other men. That's what I thought about my husband. I was thinking maybe he was sleeping with other men behind my back. And that's how it all happened. -Female Disclosing one's HIV status to a current or potential
sexual/romantic partner was a great source of stress for the youth. There were several discussions among the participants related to fear of the partner rejecting them or distancing themselves. A participant that disclosed her status reported the following: And I kept so much to myself, and I would have had somebody else to talk to besides myself,
because my husband, well, my fiancée at the time, wasn't even there for me. He completely withdrew from me. -FemaleAside from the emotional rejection from current romantic/sexual partners, there were also concerns about violent reactions to HIV status disclosure. And nowadays out here, if you have HIV, and ever do try to tell them right then and
there, your face is about to end up is in his fist. That's how it is. -FemaleStressors related to future sexual/romantic partners and potential relationships were discussed. Youth reported that during their first year of living with an HIV diagnosis there was no desire for being involved in a sexual relationship; as one male participant stated, "I went
through the I hate men phase." Regarding becoming involved in a romantic relationship, one male participant reported that they felt their partners would have "less quality of life" being in a relationship with an HIV+ person
There were discussions around the feeling that they did not deserve a partner because they were HIV+ and, therefore, not "normal." It's true, if you put me next to a person that is [HIV] negative, you are going to see that it is much a
harder life with me! -FemaleAdditionally, themes arose about infecting sexual partners and dealing with that potential for infecting others. I'm just like I
should have killed myself, because even when they first told me, I was like damn, I can't enjoy boys. -FemaleStressors Related to Peers The thought of peer disclosure was another stressor for youth and was related to fear of rejection or
fear of losing those peers. Participants reported being fearful that physical changes, such as sudden weight loss, would be noticed by peers and their HIV status would be questioned and/or rumors begin to surface. Everyone looked at me, like why you so skinny, like I know there's something going on with you, you know what I mean, but I didn't wanted
to let them know, I don't let people know my business. -MaleParticipants reported fearing that after disclosing, peers would tell other people in their community and/or school about their HIV status. Several youth shared experiences in which they disclosed to a peer and that individual revealed the youth's status to others. This intentional disclosure
led some youth to discuss how they felt they had to clear their reputation or "fight for my name." I told three of my friends. One of them went back and told people, I had to fight her for it... That the third one had to get messed up, that's so people don't know, that [they think] she lied. -FemaleAmong those participants who had disclosed to their peers,
several reported being rejected by them. Others said that, although they were not rejected, their friends leave you totally...but it's like 'no, I'm too busy.'"I don't have any of the friends I had before and I suffered from it...they
rejected me and well, what could I do? -FemaleStressors Related to Health-care Settings Most of the participants reported not having routine health care previous to the diagnosis, therefore there was considerable distress surrounding seeking medical services, finding a suitable doctor, and fitting HIV into their life. Others reported that the providers
did not treat them the same as non-HIV patients or that they were treated "like you are just a number" by the providers. Youth also reported that some providers did not understand what it was like to live with HIV. As one youth stated: Hearing doctors say there is hope, don't give up, but it didn't click in. Because I'm like, okay, you're not experiencing
it. You deal with it, yes, you're a doctor, you deal with it, however I'm experiencing it, and this is how I feel right now. I was just thinking about the need for repeated disclosure within the health-care system since participants had to continually reveal
their status to various health facility personnel. Additionally, there was the challenge of dealing with incidents where hospital staff and testing laboratories allegedly revealed their status without the youth's authorization. I get flustered because there [the clinic] the employees see you; there everyone knows me. -FemaleFor participants with children,
the fear of discrimination was another concern when receiving health-care services for themselves or for their children. I know the going to deny my son or they are not going to treat him. -FemaleStressors Related to School Youth who were in
school at the time of their diagnosis often reported a change in grades, while others reported that they stopped going to school for a while and everybody was coming over, why you not coming to school? Why you not coming to
school? Like nah, I been down. So it was just like my whole world felt crumpled. -FemaleFor youth that stayed in school, there were concerns about missing classes and keeping up with grades, youth reported feeling stressed about the images of those living with HIV that were discussed
in class (including sex education classes), as well as misinformed comments made in the classroom. You have health class and they mention HIV and sexually transmitted diseases and condoms and stuff like that. And I don't know. I asked questions. I'm not ashamed. I asked questions. But you still worry or like somebody says the wrong information
and you get afraid and you're like, nobody ever told me that. -FemaleStressors Related to Work Among the initial year of their diagnosis a secret from their coworkers. Many expressed fear that if they disclosed their status their employers would "wait until the
first day that I am absent and then fire me" or that they would be rejected by their coworkers. The fear is that other people will reject you, for example, at your work, if they find out about your condition, they could fire you from your job... I said that, it's like, I know that is like that, because that happened to me. This is...sad. -FemaleThere was also
discussion about the physical and emotional ailments that made it difficult for the youth to function while at work. Some commented on the difficulty of functioning at work because of the side effects
from medication, such as nausea or upset stomach. It made me really fatigued when I would go early to work, I would feel like a zombie, like if I was a little bit drunk. Like... I had just woken up—the whole morning! -MaleMesosystems are formed when there is interaction between two or more microsystems. Mesosystemic themes emerged for
participants in the areas of school/peers and family/partners. Stressors Related to School-Peer Interaction Many youth reported experiencing stress within the school system when their peers make negative or judgmental comments about HIV or people living with HIV. Additionally, youth reported on the negative perception of HIV presented in health
education classes as compared to more neutral presentations about other sexually transmitted diseases. Because everybody's giving you these negative images... Because you gotta sit there and listen to the kids make jokes about it and everything. Like they don't know it's really serious out there, especially when you HAVE it. -FemaleStressors Related
to Family-Partner Interaction Several female participant's reported stress related to the interaction between their families, who were recently informed of their HIV status, and their romantic/sexual partners. This was related to the interaction between their family members knowing about the participant's HIV status and then blaming the participant's
sexual/romantic partner for the infection. Participants often described their families as "overprotective" or disapproving of their current and/or future relationships. For those who continued their family's rejection or blaming the partner. So my parents felt
like he was at fault for what happened, but I felt that as well, I started feeling that way. -FemaleExosystem describes environments in which the individual is not directly involved, the other people and places that the youth may not interact with often, but that still impact him/her anyway. Exosystemic themes emerged in the areas of parental workplace
and local media. Stressors Related to Parent's Workplace The stress that parents experienced at their respective workplace negatively impacted some of the participants. The parents who had private health insurance supplied by their employer dealt with the stress at work of ensuring health-care coverage for their adolescent living with HIV.
Additionally, parents faced stress relating to disclosure of their adolescent. As the adolescent tried to cope with their own HIV status, they were burdened by the stress that the parents faced at the work place. Just now I
believe that at 22 years they will take me off my dad's medical plan...When he called and told them, well that I had the condition ...she told him that she needed to verify it...they (coworkers) found out there because they sent him a fax. And it was painful for him because his coworkers quickly looked at him like...you know. And...I can't handle anything
else! I have to survive! -FemaleStressors Related to Local Media Participants identified the influence of the media as a major source of stress. They felt that television, in particular, and the media, in general, portrayed HIV in a negative light. According to participants, this often occurs when HIV is confused or seen as synonymous with AIDS. Also,
participants perceive the media as underemphasizing the severity of other sexually transmitted diseases while highlighting HIV....And because you hear more about AIDS and you see the word AIDS more than HIV on TV and radio and news these days more than anything.... -MaleEven if you sit and watch a talk show, they'll make it seem like this STD
[HIV] is really bad, but I mean, it's livable now. -MaleMacrosystems generally consist of larger societal structures, including social, cultural, and political values, that impact society as a whole. For these participants, the high level of stigma attached to HIV/AIDS at the societal level as well as the violation of privacy and confidentiality laws created a
tremendous amount of individual stress. Cultural values and access to healthcare were also reported as stressors Related to Societal stigma and discrimination and how it increased their experience of stress. People discriminate... with people that have HIV and that is
why it is so difficult for youth to accept that they have the condition. I think that's it. -FemaleSociety has a large influence on one getting depressed because of the "what will they say" that affects me, "Well, I am sick" and I
think it's mainly due to that society. -FemaleThe participants expressed about being labeled as promiscuous, a drug user, or a prostitute due to societal misconceptions of people living with HIV. Another common reaction experienced by the participants from other
people was that the participant "looked for it" or in some way deserved to get HIV. For you to be labeled like stamps on your face, I have HIV, so they know to avoid you and don't cross the same street that you're on, or don't hold that pole that you just held. -FemaleOne worries about what people say. And that one the most ... it's not the family, not
even my parents, not my son, it's what all those other people are going to say. That they could reject me, discriminate against me, judge me without thinking that they could be a victim just like me. -MaleStressors Related to Privacy/Confidentiality Laws Violation of privacy and/or confidentiality laws was a major concern voiced by participants. Several
participants shared experiences where the laboratory technicians, school nurses, or other hospital staff revealed that a staff member at a pharmacy provided information to a family member about the purpose of the participant's prescription thus, perhaps
inadvertently, revealing the participant's HIV status. People look to find a way to find out ... and ... it is difficult because there is no confidentiality, there is no privacy, there is no confidentiality, there is no privacy, there is no privacy is no privacy.
to Cultural Values Participants felt that the cultural emphasis on individuality in the United States, was a barrier to demystifying the HIV/AIDS unless they were directly impacted by the disease. Additionally, participants discussed how they felt society's
value on individualism facilitated the lack of empathy or understanding for people living with HIV. Everybody is not gonna get involved until they're put in a certain situation. I mean, because I can't just tell you to go out... it's like they already have World AIDS Day and stuff like that, but I mean, it's people who are diagnosed or health practitioners,
stuff like that, who are involved. I mean, most, normal society, they really don't care. It's not a big issue for them unless they're directly being affected by it. -MaleStressors Related to Health-care centers for children and adolescents can be a source of stress for youth
newly diagnosed with HIV. In certain regions, there were very few doctors experienced in HIV treatment. Additionally, the lack of appropriate funding for HIV services and centers was another source of stress reported by participants. For example, if they wanted to move to another city or state, they would have to consider the treatment options
available to them. Participants also reported that the quality of the medical care varied dramatically from rural to urban areas. And that little boy needs support and in the Fajardo clinic there isn't any and it is in dire condition. And he is a little boy needs support and in the Fajardo clinic there isn't any and it is in dire condition. And he is a little boy needs support and in the Fajardo clinic there isn't any and it is in dire condition.
are things that we need to improve. I know that possibly there are no funds, but why! -FemaleYouth receiving the diagnosis. The youth in this study described a range of stressors within multiple social-ecological systems that may be confounded
by the typical challenges of normal adolescent development. In turn, these stressors can be exacerbated by living with a stigmatized and potentially life-threatening illness. Data gathered from both the focus groups and individual interviews provides a clearer understanding of the subjective experience of stress for youth newly diagnosed with HIV
through an exploration of the challenges, strengths, and needed areas of support/assistance associated with receiving an HIV diagnosis is very challenging for youth since they are experiencing multiple stressors across complex ecological systems. For youth, challenges and HIV diagnosis is very challenging for youth since they are experiencing multiple stressors across complex ecological systems.
in their microsystemic interactions were the most stressful, particularly those dealing with the actual HIV diagnosis and disclosure of their status to others. Youth reported being under enormous emotional stress during this critical period suggesting the need for more intensive services early after the diagnosis. After the youth became aware of their
diagnosis, they reported continually facing other challenges unique to HIV. First, these youth as they described intense feelings of depression, isolation, and at times, suicidal ideation. Youth described that many of their concerns were related to the lack
constantly about accidental disclosure, which created high levels of stress for them because of the fear that they may "slip up" when talking to someone and accidentally talk about their HIV status with someone to whom they had not yet disclosed. Choosing to disclose their HIV status to others and the process of disclosing was a major concern for
this group. Although most HIV-positive youth reported struggling with disclosure, greater levels of stress were reported by those who were conflicted about disclosure to a family member, particularly their mother. The tremendous effort that these youth exert to maintain secrecy around their diagnosis may lead to negative mental health effects, while
there is evidence that disclosure can lead to improved self-efficacy and increased social support, which in turn has positive effects for psychological well-being (Kalichman, DiMarco, Austin, Luke, & DiFonzo, 2003; Parsons et al., 2005; Zea, Reisen, Poppen, Bianchi, & Echeverry, 2005). However, the potential positive results of disclosure are
dependent upon the acceptance and support of the person to whom the participant discloses. Youth may also feel that they lack the skills to be able to identify someone they can trust and disclose their status in a knowledgeable manner while simultaneously having the emotional stability to deal with the outcome of the disclosure. Three primary types
of relationships were discussed when describing the stress surrounding disclosure; family, friends/peers, and romantic/sexual partners. These relationships were seen as important to the youth and disclosure to individuals in each of these areas may have induced a great deal of stress. However, for some who were able to disclose their status to an
important person in their lives, new sources of support and coping were created. Compared to other ecological (Bronfenbrenner, 1979, 1986) and social-ecological (Kazak et al., 1995) models, similarities as well as distinct differences emerged from the data of the experiences of adolescents and young adults living with HIV. For example, similar to
Kazak's model, for youth living with HIV the microsystem in Kazak's model considers the interactions between caregivers and hospitals as well as the healthcare team, this did not hold up as well in our model
since most of the youth were directly responsible for their disease management and did not have the traditional family caregivers that may be present with other chronic childhood illnesses. Other mesosystemic influences that appear unique to this population include the school-peer and family-partner interactions and relationships. For children with
other chronic illness, the exosystem is primarily a consideration of the parents' or caregivers' social networks (Kazak et al., 1995). For youth living with HIV, the same type of influence on the social networks of the family members or caregivers was not as common since many of the families
are unaware of the youth's HIV status. While the participants did not speak about it directly, it is possible that once they disclosed their status to family or caregivers, there may have been some differential treatment within the extended family structure since several participants reported cases where previous relatives with HIV had been shunned by
the family network. Another unique aspect of the exosystem for HIV-positive youth is their experience of the media and the presence of misinformation and misconceptions surrounding the HIV may include increased experiences with
stress on the societal level due to the highly stigmatized nature of HIV. Additionally, where the macrosystem includes laws and policies that may directly impact the care and services available to children with pediatric illness, we found that youth living with HIV often perceived violation of these laws, particularly as they related to confidentiality and
privacy. These data demonstrate a myriad of stressors experienced by adolescents and young adults living with HIV, particularly within the first year following the diagnosis. Because youth reported experiencing stressors in so many areas of their lives, it is important that interventions teach and/or enhance coping skills across the content domains.
Interventions need to be developed to address the unique challenges faced by these youth, as opposed to address the unique challenges faced by these youth, as opposed to address the unique challenges faced by these youth, as opposed to address the unique challenges faced by these youth, as opposed to address the unique challenges faced by these youth, as opposed to address the unique challenges faced by these youth, as opposed to address the unique challenges faced by these youth, as opposed to address the unique challenges faced by these youth, as opposed to address the unique challenges faced by these youth, as opposed to address the unique challenges faced by these youth, as opposed to address the unique challenges faced by these youth, as opposed to address the unique challenges faced by these youth, as opposed to address the unique challenges faced by these youth, as opposed to address the unique challenges faced by these youth, as opposed to address the unique challenges faced by these youth, as opposed to address the unique challenges faced by these youth, as opposed to address the unique challenges faced by these youth, as opposed to address the unique challenges faced by these youth, as opposed to address the unique challenges faced by the property of the unique challenges faced by the property of the unique challenges faced by the u
Given the gender-specific concerns (i.e., pregnancy concerns for females) of some of the participants, it may be useful for interventions to be split by gender in order to sufficiently address these issues. While the focus group participants, it may be useful for interventions for newly
diagnosed youth may want to incorporate individual sessions prior to group sessions in order to prepare youth for the group experience. Youth need to learn specific skills surrounding how to disclose their status to different types of people: school personnel, work/job colleagues/boss, family members, peers, romantic/sexual partners. Interventions may
help by improving communication within the three primary relationship areas where the most assistance is needed: family, peers, and partners. Youth also need to learn their legal rights related to confidentiality and information about what to do when those rights may be threatened. Local nonprofit agencies and large national agencies are often
available to address these concerns. Fidelity to the respect of patient confidentiality and privacy in health care utilization by youth. Many of the strengths of this study surround the diversity of the sample of a unique and understudied population. The participants represented a mix of males and females
across ethnic groups and with geographic representation from the Midwest, East Coast, and Puerto Rico. Additionally, the methodology of using both focus groups and individual interviews allowed youth to choose the setting in which they felt most comfortable sharing sensitive information. One major limitation of this study is the cross-sectional
design. Only interviewing youth at one occasion did not allow the researchers to confirm the themes with the participants, nor allow the opportunity to delve deeper into the themes. The cross-sectional nature of the project also inhibited us from examining chronosystemic factors (Bronfenbrenner, 1986) that may impact the youth's adjustment to their
diagnosis over time. Another limitation may be the reliance of distal recall to explore the participants' experiences being diagnosed with HIV. Our methodology specifically identified youth who had been diagnosed with HIV.
in the study could be a limitation of the study depending on the reliability of the participants self-report. Intervention development studies are needed in order to test the feasibility and acceptability of interventions for youth newly diagnosed with HIV. Studies should examine the type of setting most appropriate for conducting interventions as well as
the format that is most acceptable to youth participants. Once preliminary efficacy can be established for an intervention, there is a need to translate and pilot interventions with Spanish-speaking youth as well. Descriptively, it would be useful for interventions to recruit larger sample sizes across ethnic groups in order to conduct ethnic specific
analyses. It would also be valuable to follow youth longitudinally throughout the first year of living with HIV to explore differences among the frequency and intensity of psychosocial stressors over time. The Adolescent Medicine Trials Network for HIV/AIDS Interventions (ATN) is funded by grant No. U01 HD040533-06 from the National Institutes of
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