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**Reducing the Risk of Being a Victim of Crime in South Africa: You can Tell  
and be Heard!**

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### **Abstract**

People who use AAC know that silence is not always golden. Persons with disability, and in particular those with complex communication needs, have a heightened risk of becoming the victim of crime, abuse and neglect. In order to address one of the several problems associated with this, the present study looked at vocabulary needed to disclose or report crime or abuse in South Africa. Furthermore, it also focussed on the development of communication boards in four of the 11 official South African languages (Afrikaans, English, Sepedi and isiZulu). Thirty-six participants were involved in 4 language-based focus groups (English, Afrikaans, Sepedi and isiZulu). Participants were asked to generate a list of possible words they deemed important when wanting to disclose a crime, abuse or neglect. Participants then prioritized the top 55 words. When the lists from the four language groups were compared, a total of 56 words appeared on two or more of the lists. An electronic mail survey indicated that Picture Communication Symbols (PCS™) were the most frequently used symbol set in South Africa, and hence the board was developed using PCS™. A discrepancy analysis revealed that these 56 words could be represented by a staggering 219 symbols, of which 2 words (swear, threaten) did not have any existing PCS™ symbols. Consequently, they were developed. It is hoped that the process of developing the communication boards described in this paper might also be useful to the AAC community in other countries. Futhmore, the communicaton boards developed in this study can serve as a template for other languages.

### *Keywords*

crime; discrepancy analysis; multi-lingual issues; risk factors; vocabulary development; vulnerable groups; AAC

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Crime against people with developmental and other disabilities is similar in scope to that of women, children and the elderly. However, their victimization continues to remain largely invisible and unaddressed (Bryen, Carey, & Frantz, 2005; Sobsey, 1994). Research from the United States indicates that people with developmental disabilities are four to ten times more likely to be victims of a crime and that crimes against them are less likely to be reported or prosecuted (Martin, Ray, Sotres-Alvares, Kupper, Moracco & Dickens, 2006).

People with disabilities are particularly vulnerable to crimes of a sexual nature and they are often repeat victims (Nosek, Howland & Young, 1997; Sobsey & Doe, 1991). Keilty and Connelly's (2001) research noted that over 50% of women with disability had experienced sexual exploitation (assault, rape or abuse) by the time they reach adulthood. According to UNICEF (2005), instances of sexual abuse involving teenagers with intellectual disability in developing countries tend to be 1.7 times greater than those committed against their non-disabled peers. Brownridge (2006) noted that on average more than 50% of women with disability in developed countries had experienced sexual exploitation by the time they reached adulthood. Women with disability in these countries also reported significantly longer durations of physical and sexual abuse when compared to women without disabilities (Nosek et al., 2001).

Children with disabilities are more than twice as likely as children without disabilities to be physically and sexually abused (Sullivan, 2000). Girls with disability are particularly vulnerable, with high rates of violence resulting in health risks, trauma, adolescent pregnancy and susceptibility to HIV/AIDS (Rousso, 2003).

Virtually no statistics are available on the prevalence of crimes against people with disabilities in South Africa, although figures are obtainable for crimes committed against other vulnerable groups, such as women and children. Taking general South African crime statistics as well as global trends into consideration, however, the high risk that people with

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disability in South Africa face becomes apparent. South Africa is currently listed as the country with the highest incidence of rape per capita and the second highest incidence of murder, while it takes 10<sup>th</sup> place in ranking when total crime statistics are considered (Nation Builder, 2009, statistics based on *The Eighth United Nations Survey on Crime Trends and the Operations of Criminal Justice Systems (2001 - 2002)* and the United Nations Office on Drugs and Crime (2005)). There thus seems to be a particularly higher incidence of serious crimes (such as murder and rape) in South Africa than anywhere else in the world. At the same time, crimes committed in South Africa are not necessarily reported to the police – this is especially so when it comes to crimes committed against vulnerable groups, such as women and children. In 1996, for example, Child Welfare Societies dealt with 9,398 cases a month involving severe neglect or physical/sexual abuse (United Nations, 1999), which would have amounted to an estimate of over 112,000 cases over that year (newer statistics were not available). In the same year, the Child Protection Unit (which is the only source of the latest official statistics on crimes against children) of the South African Police Service dealt with only 35,838 cases of crimes against children (Pierce & Bozalek, 2004). It is thus clear that official crime statistics are under representing the magnitude of the problem of abuse against children, including children with disabilities. According to Judge Keith Matthee in the Grahamstown High Court in South Africa, only 36% of all reported rape cases in the Eastern Cape Province ever reached the court, and only 5.9% resulted in convictions (Cohen & George, 2007).

The high incidence of abuse of people with disability seems directly related to the perpetrators' recognition of their vulnerability. Perpetrators are often well-known to their victims and believe that their victims are unable to seek help or report the crime, while the victims fear backlash from the perpetrator, particularly in cases where the perpetrator also provides personal assistance (Powers & Oswald, 2004; Coetzee, 2005; Madu, 2001; Rand

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& Harrell, 2009).

Misconceptions about the sexuality of people with disability (and especially those with cognitive impairment) could also predispose this population to be more vulnerable to sexual abuse. The sexuality of this group is often misunderstood. At the one end of the spectrum, there is the belief that they are sexually innocent – children forever. Inherent to this myth is the perception that they have little or no understanding of their bodies making them prime targets for those individuals who seek sexual gratification from the abusive act.

The other side of the spectrum reflects the belief that individuals with disability are over-sexed and uncontrolled. This misconception might be the result of them being overly friendly with familiar people and strangers alike and displaying inappropriate sexual expressions or behaviours that make others feel uncomfortable, such as public masturbation. The real reasons might be the lack of information that individuals with developmental disabilities have about which behaviours are acceptable and which are not, and their difficulty in making sense out of images portrayed in the media like music videos, television and magazines.

Certain beliefs regarding sexuality and sexual practices which affect persons with disability have been reported by South African authors. Virgin cleansing, for example, refers to the belief that sex with a virgin is a cure for HIV/AIDS (Grobbelaar-du Plessis, 2007; Groce & Trasi, 2004; Phasha & Myaka, 2009). This has led to sexual abuse and rape of many girls and women with disability by men with HIV/AIDS who see these girls and women as “the fresh ones” (Hanass-Hancock, 2009). In a recent study conducted in the Eastern Cape and Kwa-Zulu Natal provinces in South Africa, one in four men (27.6%) admitted to having forced a woman or girl to have sex against her will (Jewkes, Sikweyiya, Morrell & Dunkle, 2008). Given the HIV/AIDS pandemic in South Africa, rape and sexual assault is often a death sentence due to the risk of contracting the HIV virus that causes AIDS (Coetzee, 2005).

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There is also anecdotal evidence that some poor families are selling their disabled daughters into prostitution. Prostitution rings regard these girls as “good catches” since disability-related limitations is thought to make their escape impossible (Rousso, 2003).

In some South African communities, sex with girls and women with intellectual disability is done in the name of *Ukuthwala* (Phasha & Myaka, 2009). Perpetrators believe that they will become powerful, feared by others and wealthy if they have sexual intercourse with a “mermaid” (described as a wealth-giving creature) – a spirit who is believed to live within persons with intellectual disability. Sometimes, sexual abuse of these women is interpreted as a blessing, in that the woman with the disability should “count herself lucky” to have sexual intercourse (Hanass-Hancock, 2009).

Furthermore, the reason why crimes against those with disabilities often remain invisible and unaddressed is because crimes are often covered up by communities or disability service providers (Brownridge, 2006). This creates a troublesome paradox: while there are higher rates of crimes against people with disabilities, there are simultaneous lower rates of disclosure and reporting the crime to the police (Davies, 2002). While disclosure is difficult for everyone, women report greater difficulty in naming the abuse (Powers & Oswald, 2004). When crime and abuse are reported, they are often handled administratively rather than through criminal prosecution. This might be due to the fact that the police, lawyers, judges and even rape-crisis counsellors, who all form part of the legal protection system, often have no knowledge of how to help a person with disability and therefore find the whole process too daunting (Groce & Trasi, 2004). Sadly, it also appears that sexual abuse incidents of individuals with disabilities are viewed as less serious than of persons without disability. Consequently, lighter court sentences seem to be issued in cases where the victims have been people with disability (Williams, 1993).

Individuals with disabilities who have complex communication needs face a double

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vulnerability when it comes to crime, abuse, and neglect as they are often the voiceless and invisible members of society (Bryen & Frantz, 2004; Bryen, Carey, & Frantz, 2005; Davis, 2002). There are many reasons for this increased vulnerability. Firstly, there is the very real risk that they are unable to make themselves heard and call for help (Hanass-Hancock, 2009). Secondly there is the misconception that these individuals are undeveloped, that they lack basic understanding (poor receptive language abilities), are unable to make choices and that they cannot communicate their intent, which seems attractive to potential perpetrators. Thirdly, they are seen as being unable to tell about their victimization due to their communication difficulty (Howe, 2000). Fourthly, when they do tell they are less likely to be believed because they may not be understood due to their communication disability. In some instances this has led to caregivers believing that the process of telling and subsequent investigation will do more harm than good for the person with the disability (Hanass-Hancock, 2009). Finally, there is the perception that they are unable to testify in court on their own behalf due to competency issues and other criminal codes about hearsay, confrontation, and leading the witness (Borthwick & Crossley, 1998; Bryen, 2009). This may be due to the fact that the vocabulary and symbols needed to report their victimization and to testify in court may not be available to them either on communication boards or stored in programmable speech generating devices.

Developing communication access for people with developmental disabilities who don't communicate in traditional ways (sign language or communication boards) is an important factor that needs addressing. In her study of vocabulary for socially-valued adult roles, Bryen (2008) compiled word lists appropriate for a variety of adult roles based on input from persons using AAC and professionals. These word lists were then used to conduct discrepancy analyses to determine whether the words identified could be represented by existing symbols/symbol combinations from each of three major symbol sets used in the

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United States. Bryen found that only 39-78% of words needed to communicate about sex and sexuality could be represented, and only 39-81% of words needed to talk about crime and abuse. While this may not be a problem for individuals who rely on AAC and who can spell, it certainly is a problem for those who rely on other symbols or words pre-programmed by others. In South Africa, where low literacy levels amongst people with disabilities are exacerbated due to lack of appropriate schooling (Integrated National Disability Strategy [INDS], 1997) and where incidences of both disability and crime are high, development of picture-based communication tools that enable people with limited or no functional speech to report on crime and/or abuse seems an urgent necessity. However, no studies have yet addressed the development of such tools.

### **Method**

In order to address one of the several problems associated with the high rates of crime, abuse, and neglect against individuals with complex communication needs (CCN), this study looked at vocabulary needed to disclose or report crime or abuse in South Africa. In addition, the research led to the development of communication boards in four of the 11 official South African languages (Afrikaans, English, Sepedi and isiZulu) so that both children and adults with CCN who are non-literate could tell a first responder that they have been a victim of crime, abuse, or neglect. A first responder describes a professional person to whom the situation is disclosed in an attempt to obtain help. Such a person could include a religious leader, a paramedic, teacher, therapist, police or security officer, or a social worker. The primary aim of the communication boards is thus to enable the first time reporting/disclosure of a crime, rather than testifying about a crime in a court of law. The specific four languages were selected as they are frequently spoken languages in the South Africa (Lehohla, 2003).

The first step entailed selecting appropriate vocabulary for the boards. The second step



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entailed representing this vocabulary by means of appropriate symbols to enable people with CCN who are non-literate to tell about what happened to them.

The aim of the first step was to generate a list of approximately 50 essential words which would then be represented using picture symbols on a communication board intended to enable people with CCN to report a crime or abuse. Any communication board with picture symbols is limited as to the number of symbols. The decision to limit this particular board to 50 symbols was driven by both design factors and the consideration that larger numbers of symbols on one display can be confusing to users or difficult to access due to motor limitations. In addition to the symbols, an alphabet and illustration of a human body would be provided as shown in communication aids developed by Bryen and Ravitch (go to <http://disabilities.temple.edu/aacvocabulary/e4all.shtml#index>, scroll down to “Emergency Communication 4 ALL Communication Aid” and click on either English, Spanish, or Haitian Creole to view these PDF boards which served as the template).

A workshop was held on the topic of crime and abuse as a first step in explaining the problem and identifying the needed vocabulary for telling somebody if you had been the victim of crime, abuse or neglect (Bryen, 2009). Following the workshop, all participants were asked whether they would be interested in participating in a research project and to join a focus group. All 26 participants consented. The workshop with focus groups was selected as the method of data collection that yielded information from multiple sources containing rich contextual data, allowing the researchers to capture the experiences, individual perspectives and opinions of participants who were already interested in this sensitive topic (Brotherson & Goldstein, 1992; Krogh & Lindsay, 1999; Krueger, 1988; Morse, 1996). Participants were asked to participate in the particular focus group in their first language, or in a language in which they felt comfortable, and this resulted in two large focus groups, namely Afrikaans (n = 11) and English (n=11) and one small focus group, namely isiZulu (n = 4). No Sepedi-

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speaking participants were present. Due to the fact that Sepedi is an indigenous African language which is spoken widely in Southern Africa with an estimated four million speakers, including speakers in Zimbabwe and Namibia (UNESCO World Languages Report Survey Questionnaire, 2008), it was decided to hold a separate Sepedi focus group. Ten teachers from a special school participated in this focus group. Except for the isiZulu focus group, the size of the other groups was in the region suggested as being optimal (6 – 15 participants) (Frey & Fontana, 1993). The Sepedi focus group was facilitated by a teacher who works in the field of AAC, while the other 3 were facilitated by speech language pathologists. All facilitators had a primary interest in disability and AAC.

### *Participants*

A total of 36 participants were included in the four focus groups. Four of the participants were people with disability themselves. Their occupations varied and included teachers (14), speech-language pathologists (11), occupational therapists (5) and one each of the following professions: a psychologist, a counsellor, a criminologist, a criminal lawyer, a disability activist as well as a personal assistant. Their qualifications ranged from only having Grade 12 (n=2), to a diploma (n=3), bachelors degree (n=16), and post-graduate qualification (n=15). All participants were adults, with six between ages 20 and 30, 18 between 31 and 40, and 12 between 41 and 50 years old. Regarding experience, it is clear that all of the participants had experience in this field, except for two who stated that they had less than a year's experience. The remaining participants mostly had more than 6 years of experience (n=22), with 5 and 6 respectively having 4-5 years and 1-3 years experience, respectively. There was an equal number of participants who spoke Afrikaans and English as a first language (n = 11 each), ten who spoke Sepedi (n=10) and a small number who spoke isiZulu as a primary language (n = 4).

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### *Procedures*

To determine the vocabulary a person with CCN would need to tell about abuse, crime or neglect responding from their own experience in the field, one open-ended question was used (Krueger, 1988), namely: “Which words do you think a person with CCN would need if he/she wanted to tell that he/she had been the victim of crime, abuse or neglect?” Participants were reminded not to include any words that refer to specific body parts, as it was decided that a picture of a human would be provided on the back of the communication board along with an alphabet, as per Bryen and Ravitch (2009). As a result of the commonalties participants shared and the fact that they mostly knew each other from the workshop, rapport was quickly established. Therefore, the focus group was experienced as non-threatening.

The facilitators led the respective focus groups in a semi-structured discussion of the question (Frey & Fontana, 1993) and asked for clarification during the discussion when some concepts were unclear or in cases where the data was open to misinterpretation (Krefting, 1991). Facilitators also encouraged the participants to participate actively, to share their wealth of experiences, to understand that no suggested vocabulary items would be regarded as “stupid” or “silly,” and reassured them that their responses would remain anonymous. Flexibility was allowed in terms of the sequence of suggested words (e.g., all did not have to think of verbs or nouns) enabling facilitators to listen to the discussion, observe and respond to what they saw and heard. Structural coherence was thus maintained, increasing credibility (Krefting, 1991). In an attempt to enhance trustworthiness, member checks were included, which entailed that the facilitators read out all of the words at the end of the discussion, asking participants whether they agreed, disagreed, or if any important words were overlooked (Hoffart, 1991).

After brainstorming and listing all the possible words that could be useful and relevant, participants were asked to prioritize their top 55 words from the complete list. The

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facilitators spent some time debriefing directly after the focus groups to discuss their interpretations in order to enhance trustworthiness (Peshkin, 1993). No areas that needed additional probing or clarification were noted. Debriefing is an important part of investigator triangulation and was included to heighten the credibility of the data obtained (Brotherson & Goldstein, 1992; Kimchi, Polivka & Stevenson, 1991).

### *Data analysis*

An EXCEL spreadsheet was developed, containing all 220 words that were generated by the four focus groups. Words were then ranked from 4 (words that were present on all 4 lists) to 1 (words that were only recorded on 1 list). All words that appeared on 2 lists or more were considered for inclusion on the final board. This was followed by a discrepancy analysis where the words were compared to Mayer-Johnson's Picture Communication Symbols (PCS™) to determine if symbols existed for all of these words in order to develop a communication board.

## **Results**

Both the English and Sepedi focus group generated 53 words, with the Afrikaans focus group providing 55 words, and the isiZulu focus group generated 59 words. These words are shown in Table 1. When comparing words on the four language lists, a small overlap was noticed. Only 5 words (hit, man, sad, sore, woman) were present in all four languages. A total of 28 and 24 words were present in two or three of the languages, respectively. In the list that represents words from three languages, the miscellaneous category was the largest with eight words (*how, what, when, where, who, do not, please, stop*), seven nouns including four words related to people (*I, doctor, family, police, clothes, home, toilet*) five verbs (*burn, forced, help, tell, touch*) and four descriptors (*angry, in, out, scared*).

Similarly, the words that appeared on at least 2 language lists represented a variety of

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categories. The noun categories contained 14 words each (*alcohol, car, day, food, gun, money, mother, night, secret, school, sex, sweets, they, work*) with the verb group being only slightly smaller with 8 words (*bleed, get, know, look, shout, steal, swear, threaten*). Five descriptors were included (*ashamed, alone, bad, friendly, under*) as well as one miscellaneous word/phrase (*not on this board*).

Of the words that were discarded because they only appeared in only one language, the majority came from the isiZulu focus group (21 words), followed by the Sepedi group (20), English (14) and Afrikaans group (13). These discarded words are shown in Table 2.

A survey conducted via a national South African electronic mailing list for persons interested in AAC indicated that Mayer-Johnson's Picture Communication Symbols™ (PCS™) is used widely in South Africa, especially amongst the school-aged population of persons with little or no functional speech (CCN). It was thus decided to represent the vocabulary selected by means of PCS™.

The discrepancy analysis revealed that these 56 words were represented by a staggering 219 symbols, of which 2 words (*swear, threaten*) did not have any existing PCS™ symbols. Following this research these two symbols were developed. The word that had the most possible symbols, was "I" (16). The majority of words were indicated by between 1 and 6 symbols each (see Table 3). The high number of symbols for the different concepts is understandable, given the fact that PCS™ is perceived to be a highly iconic symbol set. In these types of symbol sets, developers often try and enhance the iconicity of the symbols by adding more background features (Bornman, Alant, du Preez, 2009). This is done in an attempt to allow users to select the symbol that they can best identify with – hence the provision of 16 different symbols for "I", allowing the person who needs to use the symbol, to select the most appropriate one. In a multi-cultural context, such as South Africa, this is a Sisyphean task! Hence it was decided to select the most generic symbol throughout that would

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not typically depict gender or race.

In the design of the boards, attempts were made to optimize the number of messages that could be communicated and to ensure that the symbols were of adequate size. Therefore a double-sided display was used with one side containing the 56 PCS™ symbols and the illustration of male and female human bodies, and the other side containing an alphabet-board so that literate users would be able to spell novel words. (Illiterate users would most likely only be able to use the PCS™ symbols). The same illustration of the human bodies was also included at the back of the boards (one for adults and one for children), so that the individual could point to important body parts if needed.

The vocabulary on the board was arranged using a combination of the modified Fitzgerald key (Musselwhite & St. Louis, 1988) which groups symbols from left to right in the following categories: miscellaneous words (e.g., social words, wh-words, exclamations, and pro-nouns), verbs, descriptors, and nouns, and the principles of Aided Language Stimulation board design (Goossens', Crain, & Elder, 1994). The grammatical categories were also usually colour coded to facilitate visual and cognitive processing (Goossens', et al., 1994). Appendix A shows one of the final communication boards constructed. Each of the boards in the appendix is in both English and Sepedi. Hereafter the board was translated into 2 additional South African languages, namely Afrikaans and isiZulu. In order to accommodate the multi-lingual South African context, all of the boards display at least two different language options, with one gloss at the top and the other below the symbol. Go to <http://www.caac.up.ac.za> or go to <http://disabilities.temple.edu/aacvocabulary/e4all.shtml#index>, scroll down to "Emergency Communication 4 ALL Communication Aid" and click on either South African English, Afrikaans, Sepedi, or isiZulu to download these PDF boards for children or for adults).

## Discussion

The value of this research study is that it provides some evidence-based vocabulary for individuals with complex communication needs that might assist them in telling somebody if they have been a victim of crime, abuse or neglect. As stated earlier by Bryen (2008), AAC systems have traditionally not included vocabulary related to crime or abuse. For literate AAC users who are able to construct their own messages by using an alphabet-based board, this might not be problematic. However, in 2003, South Africa's literacy rate was reported to be 86.4 (Central Intelligence Agency, 2009), which is lower than expected. This is, indeed, problematic. Not only are very few individuals with disabilities literate (because the special school curriculum did not focus on "academic tasks" such as literacy for these children (INDS 1997), communication partners may also be illiterate. This is particularly true in the rural areas where the incidence of disability (and consequently abuse) is the highest. In these cases, individuals would have to be able to communicate using a pre-constructed communication board containing the relevant concepts and pictographic symbols.

Secondly, in a multi-lingual country, such as South Africa, many interactions would involve at least two languages. Often the speaker and the communication partner do not share the same language. In order to assist with this process, all of the boards contained two languages, i.e., English and either Afrikaans, isiZulu, or Sepedi. The individual who relies on AAC will thus point to the pictographic symbol, and the partner will be able to read the gloss in their preferred language. However, for clarity sake, the partner can then read the gloss aloud for the person who uses AAC's first language – thereby indicating that the message had been understood.

Thirdly, it is hoped that the process of developing the communication boards described in this article might also be useful to the AAC community in other countries, and that developers and manufacturers of speech-generating AAC devices and different symbol sets

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and systems will include concepts related to abuse as described. Parents and therapists should also ensure that these concepts are taught during appropriate sexuality training programmes so that individuals become familiar with these concepts.

There are, however, limitations to this research that should be noted. The method for identifying the relevant vocabulary was based on reflection of the participants (a meta-linguistic task) rather than from recorded conversations. This strategy was selected due to the sensitive nature of the topic. In order to increase the validity of this process, however, four different focus groups were held and data was compared in order to compile the most representative list.

The limitations related to the purpose of the communication board should also be noted. It was developed with the sole purpose of telling someone about abuse so that it might be stopped or the individual being helped rather than reporting the crime or abuse in court. There was concern that using this communication aid might not stand in court once it was used to disclose the alleged rape or abuse. As such, after disclosure using the board might jeopardize the credibility of its use to testify or give evidence in court. However, though recent research by Bryen (2010) suggests that this has not been the case in the United States, we decided to be cautious in its use in South Africa. The purpose of these communication boards is simply to act as a first line of disclosure so that a person who relies on AAC can tell a trusted person if she/he had been a victim of crime, abuse or neglect.

## **Conclusion**

Addressing issues related to abuse requires a multi-disciplinary approach, involving a variety of stakeholders and strategies. This project has been a first attempt in giving a voice to one of the most vulnerable groups in South Africa, namely individuals with complex communication needs. Any interaction with a person who relies on a communication board



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requires a certain amount of training and familiarity with the process, if it is to be used optimally. A generic topic-based board such as this also stands the risk of being too broad and non-specific, and hence customization of individual boards may also be needed. Therefore, these communication boards should be seen as a first attempt in addressing this issue that has not been addressed in the past. All governments are under obligation to protect its citizens, including those with a disability, from all forms of sexual exploitation and any form of abuse. Hence, the South African Government has put many laws in place, the most recent being the ratification of the United Nations Convention of the Rights of Persons with Disabilities in 2008, as well as earlier international conventions and national legislation (e.g., Constitution of South Africa, the National Disability Strategy, the Children's Act and the Sexual Offences Act). However, the traditional approaches to "protecting" people with disability, for example, through institutionalization, might have inadvertently kept them from accessing the tools and resources needed to protect themselves (Powers & Oswald, 2004).

Therefore, ending the silence of crimes against children and adults does not only require legalistic approaches, but rather a multi-disciplinary approach, using several strategies focusing on (1) the individual with a disability, (2) the family, (3) disability service providers, (4) law enforcement, (5) the criminal justice system, and (6) public policy. Ending the silence of crimes against individuals with disabilities also means helping them understand what to do if they have been a victim of a crime; providing training which includes self-defence and personal safety; teaching them the difference between healthy sexuality and sexual abuse; establishing partnerships between the justice system, advocates and service providers; developing communication access for people with developmental disabilities who don't communicate in traditional ways (sign language or communication boards); supporting parents to address their fears; working aggressively with the justice system to support investigation, prosecution and the provision of victim assistance services; expanding existing

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legislation to include people with disabilities; and aggressively applying civil rights laws and to create national and international public awareness through personal stories.

It is our hope that this research and the resultant communication boards will provide one means of risk reduction. If a person with CCN can tell and be heard, this is likely to reduce the risk of being a victim of rape, sexual or physical abuse, or neglect. It has the potential of ending the silence of victims of crime.

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## Reducing crime risk through communication

Table 1

*Vocabulary generated by four focus groups*

Syntactical Categories	Words that appear in all 4 languages		Words that appear in 3 languages		Words that appear in 2 languages		Totals
	Words	Language	Words	Language	Words	Language	
Miscellaneous			Don't	EAZ	They	ZS	
			How	ASZ	Not on this board	EA	
			Please	EZS			
			Stop	EAZ			
			What	ASZ			
			When	ASZ			
			Where	ASZ			
			Who	ASZ			
Category Total	0		8		2		10
Verbs	Hit	EASZ	Burn	EAZ	Bleed	ES	
			Forced	EZS	Feel	EZ	
			Help	EZA	Get	ES	
			Tell	EAZ	Know	EA	
			Touch	EAZ	Look	EA	
					Removed	ZS	
					Shout	AZ	
					Steal	EA	
					Swear	SZ	
					Threaten	EZ	
Category Total	1		5		10		16
Descriptors	Hurt	EASZ	Angry	EAZ	Alone	EA	
	Sad	EASZ	Inside	EAS	Ashamed	EA	
			Outside	EAS	Bad	EA	
			Scared	EZA	Friendly	AZ	
					Under	AS	
Category Total	2		4		4		10

E = English, A = Afrikaans, S = Sepedi, Z = isiZulu



## Reducing crime risk through communication

Syntactical Categories	Words that appear in all four languages		Words that appear in three languages		Words that appear in two languages		Totals
	Words	Language	Words	Language	Words	Language	
Nouns	Man	EASZ	Clothes	ESZ	Alcohol	EA	
	Woman	EASZ	Doctor	ESZ	Car	AS	
			Family	ESA	Day	EA	
			Home	EAS	Food	ZA	
			Inside	ESZ	Gun	SZ	
			Police	ESZ	Money	EA	
			Toilet	EAZ	Mother	SZ	
					Night	EA	
					Secret	EZ	
					School	EA	
					Sex	ES	
Category Total	2		7		11		20
TOTAL WORDS	5		24		28		58

E = English, A = Afrikaans, S = Sepedi, Z = isiZulu

## Reducing crime risk through communication

Table 2

*Discarded words per language*

<b>IsiZulu</b>	<b>Sepedi</b>	<b>English</b>	<b>Afrikaans</b>
Attacked	Ambulance	Dead/death	Animals
Aunt	At the back	Dirty	Bother
Body	Brother	Here	Child
Both	Escape	Important	Close
Breast	Father	Kiss	Hard
Clean	Hospital	Lives with me	Listen
Court	Hurry	More	Many/much
Cried	In front	Pay/bribe	My fault
Didn't listen	Knife	Question	Must
Give	My kids	Safe	Nappy change
Grandma	My name is	Street	Other places
Ignore	Nurse	TV / Movie	Up
Individual	On top	Want	Wheelchair / device
Lawyer	Pull	Weapon	
Neighbour	Put		
Penis	Sister		
Stabbed	Telephone		
Tied	To dress		
Uncle	Undress		
Vagina	Water		
Why?			

## Reducing crime risk through communication

Table 3

*Symbols used in South Africa according to electronic mail survey*

	<b>Reply from</b>	<b>Symbols used</b>	<b>Purpose</b>	<b>No. of individuals</b>
Private schools and centres	Pathways Kloof	PCS <sup>TM</sup> Symbolstix SA sign language	Primary symbol system Secondary symbols Support for spoken English	
	Pathways Polokwane enrichment centre	PCS <sup>TM</sup> Writing with symbols Basic sign	Communication, visual timetables, pre-literacy, literacy, routines, schedules	All children  Younger class
	Opkyk Pathways Brits	PCS <sup>TM</sup>	PECS, schedules  Equi therapy  Used with younger children and babies	11  20
	Whizz Kids	PCS <sup>TM</sup>		20
	Little leaps nursery school for children with autism	PCS <sup>TM</sup> Writing with symbols (Widgit/Rebus)	PECS	16
Government special schools	Pretoria CP School	PCS <sup>TM</sup>  PCS <sup>TM</sup> and alphabet  Widgit (Writing with symbols)	Preschool: Learning language, help with routine  Basic needs communication (children aged 10-15)  Basic needs, expression (children aged 13-17)  Making readers for children	50 7 4
	Browns School	PCS <sup>TM</sup>		
	New Hope School	PCS <sup>TM</sup>  PCS <sup>TM</sup> and alphabet	In nursery: (1)ALS  (2) communication purposes (expressive)  School-going: Expressive	20  Few  Few

## Reducing crime risk through communication

			(communication boards, devices)  Work Orientation: (1) ALS, classroom activities  (2) Expressive	Few
Other schools	Pro Nobis School	PCS™		
	YWCA special school	PCS™		
	Sunrise School	PCS™, objects, photos  PCS™ and alphabet	Schedules and ALS for Junior 1 and 2,  Learner with CCN-expression	30  1
	Vista Nova School	Clicker with CPL (Clicker picture library)  PCS™ (Boardmaker)	Individual users (expression?)  Visual schedules, social stories, visually enhanced teaching and therapy equipment	4  Many
	St Raphael's School	PCS™		
	RP Moodley School	PCS™	Schedules, booklets, labels, instructions	All junior phase learners  Learners with CCN  5 learners on autistic spectrum
	Stepping stones SNC School	PCS™		
	School for children with autism (name?)	PCS™	PECS, schedules	15
	Bel Porto School	Makaton		3
		PCS™  Clicker symbol library		18  4




































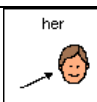
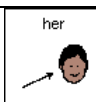























## Reducing crime risk through communication

	Faery Glen Therapy Centre	PCS™ (Boardmaker) Makaton sign SA sign		
	Madwaleni (outreach)	Objects PCS™	Object boards PCS™ booklets	5 (unsure if all used)
	Anonymous	Grid	Expression	1
	Private practice OT	Minspeak AQLS (words and letters) Tactile symbols PCS™ (sometimes in combination with print)		4 1 3 8
	Individual	Bliss		1















































































Reducing crime risk through communication

Table 4






































Discrepancy analysis: Words and possible Picture Communication Symbols (PCST<sup>TM</sup>)

Word	Language	Number of possible symbols	PCST <sup>TM</sup>									
Hit / Punched	E A S Z	6	hit 	hit 	hit 	hit others 	hit others 	punched 				
Man / Him / He	E A S Z	9	man 	man 	man 	mean man 	male 	him 	him 	he 	he 	
Sad / Hurt feelings	E A S Z	6	sad 	sad 	sad 	sad 	hurt 	hurt 				
Sore	E A S Z	6	sore 	sore 	sore throat 	sore throat 	sore 	sore 				
Woman / She / Her	E A S Z	10	woman 	woman 	woman 	woman 	female 	her 	her 	her 		
			her 	her 								
Angry	E A Z	6	angry 	angry 	angry 	angry 	angry 	angry 				
Burn	E S Z	1	burn 	fire 								
Clothes	A S Z	6	clothes 	clothes hoist 	new clothes 	dirty clothes 	change clothes 	change clothes 				
Doctor	E S Z	1	doctor 	doctor visit 	doctor visit 	doctor visit 						
Don't	E A Z	6	don't 	don't 	not 	not 	not 	not 				

# Reducing crime risk through communication







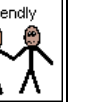
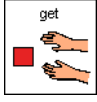


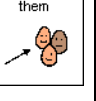
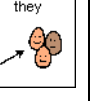
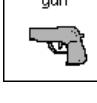
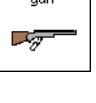

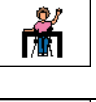


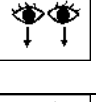

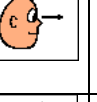
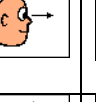

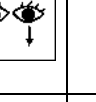



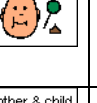







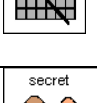






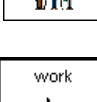
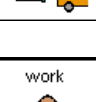

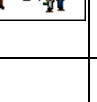
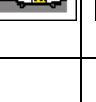

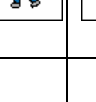
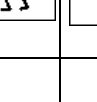
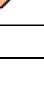







Family	E S A	7									
Forced	E Z S	1									
Help	E Z A	8									
Home	E A S	5									
How?	A S Z	4									
I/me/mine	E S Z	16									
											
In	E A S	5									
Out	E A S	8									
Please / beg	E Z S	5									
Police	E S Z	2									
Scared	E Z A	4									
Stop	E Z A	4									
Tell	E A S	8									

# Reducing crime risk through communication

Toilet / bathroom	E A Z	4	toilet 	toilet 	get toilet paper 	get toilet paper 	bathroom 	clean bathroom 	bathroom 	take a bath 	
Touch	E A Z	6	touch 	touch 	take 	take 	take 	touch gently 			
What?	A S Z	2	what 	what 							
When?	A S Z	1	when 								
Where?	A S Z	1	where 								
Who?	A S Z	1	who 								
Alcohol	E A	1	alcohol 								
Alone	E A	2	alone 	alone 							
Ashamed / shy	E A	1	ashamed 								
Bad	E A	3	bad 	bad 	bad 						
Bleed	E S	2	blood 	blood 							
Car	A S	3	car 	car 	maxi-taxi 						
Day	E A	2	day 	early 							
Food	Z A	4	food 	hot food 	food 	food / drink 					



# Reducing crime risk through communication

Friendly	A Z	7	friendly 	friendly 	friendly 	friendly 	friendly 	friendly 	friendly 		
Get	E S	1	get 								
They	Z S	2	group 	group home 	them 	they 					
Gun	S Z	2	gun 	gun 							
Know	E A	3	know 	know 	know 						
Look	E A	7	look 	look 	look 	look 	see 	see 	see 		
Money / sweet	E A		money 	sweets 	sweets 	sweets 	sweets 	candy bar 			
Mother	S Z	4	mother 	mother 	mother & child 	mother & child 					
Night	E A	1	night 								
Not on this board	E A	1	not on this board 	no 	no 	no 					
Secret	E Z	3	secret 	secret 	our secret 						
School / work	E A		school 	school 	school 	school 	school 	work 	work 	work 	work 
			work 	work 	work 						
Sex	E S	3	sex 	sexual abuse 	intercourse 	intercourse 					



Appendix A

Communication for ALL: You Can Tell and be Heard (Sepedi and English)

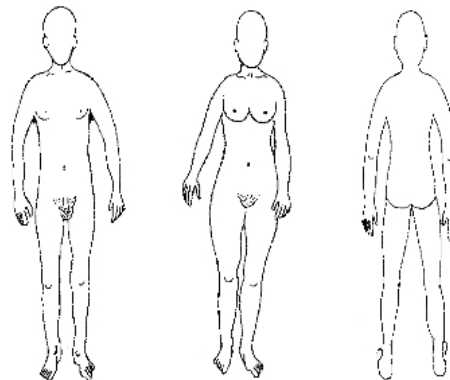
Communication for ALL: You can tell and be heard / Poledisano ya BOHLE: O ka bolela o ka ba wa theeletšwa

how bjang	burn fishatšhuma	get humna hwetsa	sad hurt feelings kwisa bohloko	in ka gare	family bageso	night boshego	I can't speak, but can hear and understand you. Ha ke kgone ho bua more ke a utlwa
what keng	don't o seke	know tseba	angry befelwa	out ka ntle	home ntfo	food dijo	Please contact my family. Ke kopa o nkopanye le batswadi ba hao
when neng	help thusa	look lebelela	forced nkgapeletsa	under ka tlase	imemine hna	gun sethuya	Ask me questions if you need to, but please wait patiently for my answers Oka botsa gelo ga o nyaka e fela. o ja fela pelo ka tlo go araba
where kae	please/beg thusa	sex thobano robalana	scared bofa	man/him/he moina	police maphadisa	moneysweets tshelete malekere	I will point where... Ngizokumbisa ukuthi kuphi la kubuhlungu khona
who mang	stop emiša	shout/scream kgalema	alone ketee	sore bohloko	toilet bathroom ntfoana	mother nina	<p>Copyright 2010, D.N. Bryen, P.Kershaw, &amp; J.Bornman. Institute on Disabilities, Temple University. Centre for Augmentative and Alternative Communication University of Pretoria The Picture Communication Symbols ©1981-2009 DynaVox Mayer-Johnson LLC. Used with permission. All rights reserved worldwide</p>
they bona	tell botša	steal utswa	ashamed/shy kejewa	woman she/her mosadi	alcohol bjala	secret sephiri	
not on board ga le gona mo botong ye	touch ikgoatha	swear roga	bad bošula	clothes dlaparab	car koloi sefatana	school work mošomo wa skolo	
hit/punch itia	bleed madi	threaten rumela	friendly boho	doctor ngaka	day letsatsi	father tate	

Communication for ALL: You can tell and be heard / Poledisano ya BOHLE: O ka bolela o ka ba wa theeletšwa

0	1	2	3	4
5	6	7	8	9
a	b	c	d	e
f	g	h	i	j
k	l	m	n	o
p	q	r	s	š
t	u	v	w	x
y	z	!!	.	SPACE

I can't speak, but can hear and understand you. Ha ke kgone ho bua more ke a utlwa
Please contact my family. Ke kopa o nkopanye le batswadi ba hao
Ask me questions if you need to, but please wait patiently for my answers Oka botsa gelo ga o nyaka e fela. o ja fela pelo ka tlo go araba
I will point where... Ngizokumbisa ukuthi kuphi la kubuhlungu khona



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