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# Abuse Assessment Screen–Disability (AAS-D): Measuring Frequency, Type, and Perpetrator of Abuse toward Women with Physical Disabilities

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## ABSTRACT

An interview questionnaire was presented to a multiethnic sample of 511 women, age 18–64 years, at public and private specialty clinics to determine the frequency, type, and perpetrator of abuse toward women with physical disabilities. The four-question Abuse Assessment Screen–Disability (AAS-D) instrument detected a 9.8% prevalence (50 of 511) of abuse during the previous 12 months. Using two standard physical and sexual assault questions, 7.8% of the women (40 of 511) reported abuse. The two disability-related questions detected an additional 2.0% of the women (10 of 511) as abused. Women defining themselves as other than black, white, or Hispanic (i.e., Asian, mixed ethnic background) were more likely to report physical or sexual abuse or both, whereas disability-related abuse was reported almost exclusively by white women. The perpetrator of physical or sexual abuse was most likely to be an intimate partner. Disability-related abuse was attributed equally to an intimate partner, a care provider, or a health professional. This study concludes that both traditional abuse-focused questions and disability-specific questions are required to detect abuse toward women with physical disabilities.

## INTRODUCTION

**A**BUSE AGAINST WOMEN IS EPIDEMIC,<sup>1,2</sup> affects health,<sup>3–5</sup> and contributes significantly to the cost of medical care.<sup>6,7</sup> The Council on Scientific Affairs of the American Medical Association (AMA)<sup>8</sup> lists four steps to increase detection of abuse among female patients, commencing with a routine assessment documented in the medical record. The importance of designated questions to ensure abuse assessment and documentation

is well established. One study showed that identification of abuse increased to 11.6% prevalence when one question about assault by an intimate partner was added to the health history form in a primary care setting. In contrast, no identifications resulted when questioning was left to the discretion of healthcare providers.<sup>9</sup> The use of a specific screening question in prenatal clinics to assess for abuse during pregnancy resulted in a 9% higher detection rate than the routine social service interview.<sup>10</sup> In a recent study using a four-

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1. <b>Within the last year</b> , have you been hit, slapped, kicked, pushed, shoved, or otherwise physically hurt by someone?	YES	NO
If YES, who? (Circle all that apply)		
Intimate partner	Care provider	Health professional
Family member	Other	
Please describe: _____		
2. <b>Within the last year</b> , has anyone forced you to have sexual activities?	YES	NO
If YES, who? (Circle all that apply)		
Intimate partner	Care provider	Health professional
Family member	Other	
Please describe: _____		
3. <b>Within the last year</b> , has anyone prevented you from using a wheelchair, cane, respirator, or other assistive devices?	YES	NO
If YES, who? (Circle all that apply)		
Intimate partner	Care provider	Health professional
Family member	Other	
Please describe: _____		
4. <b>Within the last year</b> , has anyone you depend on refused to help you with an important personal need, such as taking your medicine, getting to the bathroom, getting out of bed, bathing, getting dressed, or getting food or drink?	YES	NO
If YES, who? (Circle all that apply)		
Intimate partner	Care provider	Health professional
Family member	Other	
Please describe: _____		

FIG. 1. Abuse Assessment Screen-Disability (AAS-D) (circle YES or NO).

question abuse assessment screen, the frequency of documented assessments increased from 0 to 88%, and detection of abuse increased from 0.8% to 7%.<sup>11</sup> Clearly, routine assessment for abuse using designated questions increases detection.

It is estimated that 26 million American women, or nearly 20% of the population of women, live with a physical disability.<sup>12</sup> One national mail survey found that the same proportion of women with physical disabilities ( $n = 439$ ), compared with women without physical disabilities ( $n = 421$ ), reported being physically (35.5% vs. 35.6%) or sexually (39.9% vs. 37.1%) abused.<sup>13</sup> Perpetrator relationship showed no differences between groups, with intimate partners being the primary offender. However, women with physical disabilities were more likely to experience physical (1.6% vs. 0%) or sexual (2.3%

vs. 0.5%) abuse by attendants and reported more sexual abuse by healthcare providers (4.8% vs. 2.4%). Additionally, women with physical disabilities had experienced the abuse for a significantly longer period of time than women without physical disability (7.4 years vs. 5.6 years). The study concluded that women with physical disabilities are most at risk for abuse of all types from their intimate partners and experience abuse in the same proportion as women without physical disabilities. However, women with physical disabilities are more likely to experience physical or sexual abuse by attendants and healthcare providers.

Abuse assessment tools that focus on intimate partner physical or sexual abuse are insufficient for the range of abuse experienced by women with physical disabilities. Therefore, the Abuse

Assessment Screen–Disability (AAS-D) tool was developed and tested in specialty clinics for women with disabilities. To our knowledge, the effectiveness of direct clinical assessment of abuse toward women with physical disabilities has not been evaluated.

**MATERIALS AND METHODS**

To determine the frequency, type, and perpetrator of abuse toward women with a physical disability, 511 women were assessed for abuse using the AAS-D tool (Fig. 1). Questions 1 and 2 of the AAS-D are taken directly from the AAS, a widely used assessment instrument with established reliability and concurrent validity.<sup>14,15</sup> Questions 3 and 4 of the AAS-D were developed based on the results of the national study<sup>13</sup> using qualitative interviews with abused disabled women and after consultation with experts in the field of abuse assessment.

Participation was limited to English-speaking and Spanish-speaking women with physical disabilities who were 18–64 years of age; were diagnosed with a physical disability that limited one or more major life activities, including mobility and self-care/home management; and had no known cognitive or communication impairments or mental health problems that would significantly diminish their ability to respond to the questions during the interview. Five specialty

clinics that serve women with physical disabilities provided the setting for data collection.

After approval by the agencies and institutional review boards for human subjects, sampling proceeded as follows. Women using the specialty clinics who met study criteria were informed of the study by clinic staff. The project staff escorted interested women to a private room where the study was explained in English or Spanish according to the woman’s language preference. A sample of 511 women met the study criteria and gave informed consent. Approximately 20 women refused to participate and be screened. Lack of time was the most common reason for not participating. Basic demographic information was gathered before administration of the four-question AAS-D. Women were asked to self-define their ethnic affiliation. All instruments were administered orally by the interviewer and offered in English or Spanish. All women were offered written information on the cycle of violence and community resources for law enforcement, safe shelter, and legal aid.

**RESULTS**

The demographic characteristics and abuse status of the 511 disabled women are shown in Table 1. Women defining themselves as “Other” were primarily of mixed ethnicity. Most women were over age 35, and 42% were married. Although al-

TABLE 1. CHARACTERISTICS OF 511 DISABLED WOMEN

<i>Characteristic</i>	<i>Black, % (n = 135)</i>	<i>Hispanic, % (n = 112)</i>	<i>White, % (n = 225)</i>	<i>Other, % (n = 37)</i>	<i>Total, % (n = 509)<sup>a</sup></i>
Age, years					
18–34	21.5	30.7	8.4	10.9	16.9
35–44	25.2	22.5	21.0	40.5	23.8
45–54	25.2	33.3	43.8	37.8	36.3
55–64	28.1	13.5	26.8	10.8	23.0
Married	29.5	33.0	52.0	48.6	41.8
Education, years					
0–11	20.9	64.9	8.6	19.4	25.3
12/GED	38.1	21.6	20.9	27.8	26.1
≥13	41.0	13.5	70.5	52.8	48.6
Type of abuse					
Physical/sexual	10.4	8.9	4.4	16.2	7.8
Disability related	0.7	0.9	3.6	0	2.0

<sup>a</sup>Data on ethnicity are missing for 2 women.

TABLE 2. PERPETRATOR AND TYPE OF ABUSE TO DISABLED WOMEN

<i>Perpetrator<sup>a</sup></i>	<i>Physical/sexual abuse</i> n = 40	<i>Disability-related abuse</i> n = 10
Intimate partner	24	3
Care provider	3	3
Health provider	6	3
Family member	9	2
Other (stranger, neighbor)	7	1

<sup>a</sup>Some women were abused by perpetrators in more than one category.

most half of the women (48.6%) reported education beyond high school, only 21.5% were gainfully employed. Mean duration of disability was 13.3 years (SD = 12.9), with 78% of the women requiring assistive devices (e.g., cane, walker, wheelchair). Using the four-question AAS-D, 9.8% of the women (50 of 511) reported abuse. Using questions 1 and 2, only 7.8% of the women (40 of 511) reported abuse. When the two disability-related questions were added, an additional 2% of the population (10 women) reported abuse. The 37 women defining themselves other than black, white, or Hispanic were more likely to report physical or sexual abuse or both. Of the 10 women who reported disability-related abuse, 8 identified themselves as Caucasian. An intimate partner was the primary perpetrator of physical or sexual abuse (Table 2). Disability-related abuse was attributed almost equally to an intimate partner, a care provider, or a health professional (Table 2).

## DISCUSSION

When a sample of 511 black, Hispanic, and white women with physical disabilities was assessed for abuse with four clinical questions, 1 in 10 disabled women reported abuse. The two-question AAS detected 8% of the abused women, and two disability-related questions found an additional 2%. The perpetrator was more likely to be an intimate partner in the case of physical and sexual abuse. For disability-related abuse, no single perpetrator type emerged.

Both traditional abuse-focused and disability-specific questions are required to measure abuse toward women with physical disabilities accurately. The level of abuse measured with questions 1 and 2 of the AAS-D is similar to the prevalence rates among women in primary care

settings.<sup>16,17</sup> No clinical sample exists for comparison of disability-related abuse. Using a traditional two-question screening tool, only 80% of the abused women would have been detected.

The generalizability of the findings from this study is limited by the cross-sectional research design and the use of a convenience sample of predominantly urban disabled clinic patients. Replication with the AAS-D is needed in rural geographic areas, as well as with more severely disabled women who lack outpatient clinic access. Furthermore, the study relies entirely on self-reports, which may underreport or overreport because of inadequate recall or lack of voluntary disclosure. No attempt was made to confirm any of the information independently. Finally, the goal of this study was not to validate the AAS-D. Despite these limitations, this study documents the usefulness of an abuse assessment tool designed for women with physical disabilities.

## CONCLUSIONS

The implications of our study are simple and straightforward. Four assessment questions asked in a private setting revealed that 1 in 10 disabled women in this population had been abused within the last year. Research has documented the importance of an interview questionnaire vs. self-report for abuse detection. Self-report for abuse, using the AAS, was measured against primary provider assessment. Approximately 8% of women self-reported abuse on a standard medical history intake form, but when asked the same abuse assessment questions in a private interview, 29% of the women reported abuse.<sup>18</sup>

More than a decade ago, the Surgeon General called for routine assessment of abuse of pregnant women.<sup>19</sup> *Healthy People 2000: Midcourse Re-*

view and 1995 Revisions called for the training of healthcare professionals to address the needs of victims of violence.<sup>20</sup> Reducing the rate of physical assault by current or former intimate partners is specifically included in *Healthy People 2010* objectives.<sup>21</sup> Public health officials recommend that standard protocols be implemented in healthcare settings in the belief that "early identification, supportive education, effective referral, and ongoing support and follow-up for abused women at primary care sites could eventually reduce the prevalence of abusive injury by up to 75%."<sup>22</sup>

The American College of Obstetricians and Gynecologists<sup>23,24</sup> has emphasized the existence of partner violence and the need for routine assessment of all women.<sup>25</sup> The position of the American Academy of Family Physicians is that family physicians must be able to recognize and know how to treat family violence.<sup>26</sup> Specific protocols for intervening in cases of abuse during pregnancy<sup>27</sup> and for identification, assessment, and intervention in healthcare settings have been published.<sup>28</sup>

Commonly, clinic visits are the only time that disabled women come into contact with healthcare providers. This study documents that four simple clinical screening questions can detect abuse. Assessment for physical, sexual, and disability-related abuse must be standard care for disabled women.

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