Invisible Chronic Illness in Female College Students

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Abstract

This study examined how female students negotiate the experience of college while living with an invisible chronic illness. Four research questions were explored. Quantitative data, through the use of online surveys, were collected from 105 female students living with a chronic illness enrolled at a medium-sized university in the Southwestern U.S. Results indicated that the majority of participants view their illness as a serious condition that has impacted their life. The majority of respondents reported that they feel capable of completing college, obtaining a job, and view themselves as a person of worth; however, nearly all respondents reported they have avoided social situations in college because of their chronic illness. The majority of participants indicated they accept their chronic illness diagnosis and about half reported that they engage in healthy coping behaviors. We discuss implications of the findings for administrators and disability support services and suggest additional research.

Chronic illnesses such as multiple sclerosis, lupus, endometriosis, fibromyalgia, and many more have the potential to disrupt an individual's sense of self, construction of self, and role performance, especially while attending college (Dennison et al., 2011; Werner et al., 2004). More importantly, many of the symptoms of chronic illnesses follow a relapsing-remitting pattern and are not always easily apparent to others. Some hidden symptoms and less visible symptoms of chronic illnesses include chronic pain, fatigue, inflammation, bowel and bladder disturbances, and limitations in mobility, just to name a few (Vassilev et al., 2014). Unfortunately, stigma often derives from issues of legitimacy related to the visibility of chronic disease symptoms because the symptoms might not be discernible to others (Green et al., 2005). When symptoms cannot be seen, relatives, friends, employers, and colleagues are unlikely to understand the seriousness of the illness and how it impacts the life of the person. Even worse, once individuals finally decide to disclose their chronic illness to those outside of their family, they are often not believed by others (Vickers, 2017), and some individuals have reported that others have accused them of faking or making up their illness to avoid obligations or gain special advantages (Green, et al., 2005). Lack of disclosure and efforts to conceal their disability status often result in increased anxiety within this population, which can, in turn, exacerbate chronic illness symptoms (Adams & Proctor, 2010; Livneh et al., 2001; Vickers, 2017).

The process of psychosocial adjustment to college as a female with a hidden chronic illness involves many factors such as stigma management, disclosure, coping strategies, social support, and identity reconstruction (Davis, 2006). Women, more often than men, face stigma,

body as the 'neutral' and normative self, disability is both an emphatically particular embodied reality and a trope for disenfranchisement" (Mintz, 2007, p. 39). The study of disabilities has examined how some individuals with disabilities reclaim, redefine, and/or reframe their identity outside of the dominant paradigm of ableism (Clark, 2006). "What one understands of disability, femaleness, and identity is continually being unraveled and unwoven" (Mintz, 2007, p. 44). For those living with a chronic illness that is episodic or progressive in nature, identity and the ability to self-identify as disabled may need to be reworked repeatedly as symptoms emerge (Mintz, 2007; Davis, 2006).

Separation, as a component of felt stigma, occurs when individuals encounter numerous negative reactions from others which can result in depression and negative perceptions of the self (Evans et al., 2017; Green et. al., 2005). Green et. al. (2005) revealed that individuals with disabilities report losing their own sense of worth, sense of identity, and sense of being a whole person, all of which can lead to social isolation. "If the self we see reflected in the eyes of others is devalued, there is little incentive for social interaction" (Green et. al. 2005, p. 210). Individuals with an invisible chronic illness actively attempt to manage felt stigma, either through rejection of a disabled identity or by embracing a disabled identity (Evans et al. 2017). For example, Riddell and Weedon (2014) found that some individuals with disabilities are beginning to embrace the political category of disability by lessening the negative image of disability and by focusing on ability and difference rather than disability and normalcy that comes from socially constructed environments.

Chronic Illness as a Continual Disruptive Event

As a founder in the field of chronic illness, Bury (1982) noted that constantly changing symptoms and life circumstances require constant adjustments on behalf of the person with a chronic illness and as such, the process of adjustment will be ongoing and changing. Additionally, there are disruptions in the everyday taken-for-granted assumptions in the individual's plans for the future and a newly, ever-present, casted shadow of anxiety and uncertainty. Bury contended that these disruptions are crucial for sociologists to understand because they are powerful enough that "a fundamental re-thinking of the person's biography and self-concept is involved" (p. 169). Indeed, Bury's work on the chronic illness experience "suggests that the assault on identity for many people when they are unable to perform as usual can be profound" (Dyck & Jongbloed, 2000, p. 342).

The British Social Model of Disability

The British Social Model of Disability provides a perspective that is helpful to institutional organizations in understanding individuals with disabilities as well as individuals with invisible chronic illness. Invisible chronic illnesses meet criteria for disability defined by the United Nations, which suggests that a disabled persons' ability to carry out daily living activities results in multiple hindrances to their financial and social circumstances (Jung, 2002); thus, the Social Model of Disability is an appropriate perspective to use in current understandings of invisible chronic illness. The Social Model of Disability posits that social structures fail to properly accommodate disabled individuals, which leads to oppressing this population (Clark, 2006; Olkin, 2002). Society largely views health and illness as a responsibility of the individual which should be managed through proper lifestyle choices (Vickers, 2017). Olkin (2002) outlines the importance for wider society to utilize this model and warns that it is imperative that society adopts the social model or else persons with disabilities will continue to be disadvantaged.

Structural conditions, such as the fact that higher education has been restructured to align more with a neoliberal agenda, has resulted in a system that values product over people (Jung, 2002). Current declines in economic conditions have resulted in a decline in the amount of funding and resources in disability services (Riddell & Weedon, 2014). By ignoring structural factors that oppress, separate, and hinder individuals with disabilities by fully participating in society, the focus remains on the individual as being defective (Clark, 2006).

Invisibility

Visibility of chronic illness poses unique challenges for students whose impairments are not readily visible when compared to students with visible impairments (Clark, 2006). Research should distinguish between the two because students with hidden or less visible impairments are likely to have vastly different experiences in higher education settings than students with impairments that are easily seen by others (Green, et al., 2005). People with invisible disabilities do not report experiencing pity and awkwardness in social interactions, but instead report higher levels of blame and separation due to misunderstandings and stigmas resulting in a variety of individual outcomes (Martz, 2003). Once a negative label from society is placed upon an individual, it is likely that the individual will experience additional hindrances that will interfere with their complete integration and acceptance into society, as well as interfere with the achievement of the individuals' personal goals, such as acquiring a college degree (Seo & Chen, 2009).

The choice to conceal or disclose their disability status depends on weighing the costs and benefits of self-disclosing (Riddell & Weedon, 2014). A positive aspect of disclosing their disability status within the university is that the university can usually ensure students receive chronic illness, were drawn from The Chronic Illness Resources Survey (Glasgow et al., 2000). In order to examine the impact chronic illness has on the identity of each participant, survey items 10-20 and 24 were taken from the Revised Illness Perception Questionnaire (Moss-Morris et al., 2002) and items 26 and 29 were taken from Rosenberg's (1965) Self- Esteem Scale. The remaining items were created for the purposes of this survey.

Data analysis was completed with SPSS 25. Frequency distributions and contingency tables were used to examine trends and patterns in the responses and to address the research questions. To ensure accurate interpretations of the data, participants who had not registered with DSS (76 cases) were excluded from the data analysis that involved questions about DSS services. Additionally, participants who had not requested accommodations from individual instructors (58 cases) were also excluded from the data analysis concerning instructor accommodations.

Results

The most frequently reported chronic illnesses, depicted in Table 1, were chronic migraines (24.8%), asthma (18.1%), and irritable bowel syndrome (17.1%), which is similar to the general population (Beatty, 2018). General demographic information on the participants can be found in Table 2. Table 3 shows that a total of 39% of participants reported that their illness was progressive, 26.7% indicated that their illness was not progressive, and 34.3% were not sure. At the time the survey was completed, 85.7% of participants indicated that their chronic illness does follow a relapsing-remitting pattern. The length of time participants had been diagnosed with their chronic illness or illnesses varied, with 29.5% responding that they had been diagnosed for less than 1 to 3 years and 22.9% responding that they had been diagnosed for four to seven years.

This study also examined the relationship between age and whether participants believe that they are capable of completing college and holding down a job. As shown in Table 4, while the sample is skewed toward younger years, the majority agreed or strongly agreed that they have adapted to college. Somers D showed (.013; >.05) no statistically significant relationship between age and the perception of ability to complete college and hold a job. Given the skew of the sample, it is harder to draw firm conclusions about the relationship between age and adaptation to college. Additionally, we examined the relationship between time since diagnosis and respondents' belief that they are capable of completing college and holding a job, as shown in Table 5. The findings indicate that those who have had their diagnosis for the longest periods of time tend to agree that they have adapted the best to college and seem more likely to strongly agree (4-7 years and more than 12 years). However, Somers D indicated (-.08; p>.05) no statistically significant relationship between the number of years since diagnoses and belief in capability of completing college and holding a job.

Research Question 1

Survey results that pertain to the first research question are summarized in Table 6. This question asked how female students feel about their chronic illness in general. The vast majority of participants viewed their chronic illness as a serious condition (67.7% agreed or strongly agreed) and the vast majority also reported that their chronic illness has had a strong impact on their life (92.7%). Additionally, the results also indicate that the majority of participants have faced serious financial consequences because of their illness (68.5%). Respondents reported that their illness has had other negative effects on them as well, including depression (53.3%), anger (52.3%), fear (50.4%), and anxiety (72.4%). In terms of accepting their chronic illness, most had come to some degree of acceptance of their condition, with 68.6% of survey participants agreeing or strongly agreeing with the statement, "I accept my illness diagnosis and that it can't be changed," and 75.3% agreed or strongly agreed with the statement, "I am used to the idea that I have a chronic illness." Taken together, the findings for this question suggest that most female college students living with an invisible chronic illness view and accept that their illness is a serious condition that has negatively impacted their finances and emotional well-being.

Research Question 2

Research Question 2 asked how the identity of the respondents as persons with an invisible chronic illness has been impacted by attending college. The findings in Table 7 indicate that close to a third (31.4 %) of the respondents reported that they have spent a moderate or large amount of time grieving the person they were before their illness. Nearly two thirds (64.8%) of participants reported that they either agreed or strongly agreed that they often view their body as a barrier, which is known to impact one's identity.

For the purposes of this study, identity is defined as the set of meanings associated with the self (Burke & Stets, 2000). Disability identity is defined as both an individual and social phenomenon, which is known to change based on the context of the sociocultural

| Type of Chronic Illness | N | Percentage |
|--------------------------|----|------------|
| Chronic Migraines | 25 | 23.8 |
| Asthma | 19 | 18.1 |
| IBS | 17 | 16.2 |
| Endometriosis | 16 | 15.2 |
| Fibromyalgia | 16 | 15.2 |
| Hashimoto's Thyroiditis | 15 | 14.3 |
| Arthritis | 13 | 12.4 |
| Chronic Fatigue Syndrome | 10 | 9.5 |
| Diabetes | 8 | 7.6 |
| Rheumatoid Arthritis | 8 | 7.6 |
| Ulcerative Colitis | 7 | 6.7 |
| | 7 | 6.7 |
| Cancer | 7 | 6.7 |

| Item | N | Percentage | | |
|--|----|------------|--|--|
| Age Group | | | | |
| 17-21 | 22 | 20.9 | | |
| 22-26 | 34 | 32.4 | | |
| 27-31 | 10 | 9.5 | | |
| 32-36 | 14 | 13.3 | | |
| 37-41 | 8 | 7.6 | | |
| 42-51 | 10 | 9.5 | | |
| 52-66 | 4 | 3.8 | | |
| 67+ | 3 | 2.9 | | |
| Ethnicity | | | | |
| White | 75 | 71.4 | | |
| Hispanic or Latino | 15 | 14.3 | | |
| African American | 10 | 9.5 | | |
| American Indian or Alaska Native | 4 | 3.8 | | |
| Asian | 1 | 1.0 | | |
| Type of Employment | | | | |
| Full time | 34 | 32.4 | | |
| Part time | 39 | 37.1 | | |
| Unemployed | 32 | 30.5 | | |
| Length of time as a student at this university | | | | |
| 1-2 semesters | 42 | 40.0 | | |
| 3 semesters to 1.5 years | 28 | 26.7 | | |
| 2-3.5 years | 23 | 22.0 | | |
| 4-5 years | 8 | 7.6 | | |
| 6+ years | 4 | 3.8 | | |
| Highest Level of Education | | | | |
| High school or GED | 30 | 28.6 | | |
| Associates Degree | 24 | 22.9 | | |
| Bachelor's Degree | 36 | 34.3 | | |
| Master's Degree | 14 | 13.3 | | |
| Doctoral Degree | 1 | 1.0 | | |

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Table 3

| Item | Ν | Percentage |
|--|----|------------|
| Years diagnosed with illness | | |
| 1-3 years | 31 | 29.5 |
| 4-7 years | 24 | 22.9 |
| 8-11 years | 19 | 18.1 |
| 12+ years | 31 | 29.5 |
| Is your chronic illness progressive? | | |
| Yes | 41 | 39.0 |
| No | 28 | 26.7 |
| I don't know | 36 | 34.3 |
| Does your illness follow a relaps- ing-remitting pattern? | | |
| Yes | 90 | 85.7 |
| No | 13 | 12.4 |
| I don't know | 2 | 1.9 |

=105.

| | | I am Capable of Completing College and Holding a Job | | | | | | | |
|--------|----------------------|--|--------------|-------------|-------------------|--------------|--|--|--|
| Age | Strongly Disagree | Disagree | Neutral | Agree | Strongly Agree | Total | | | |
| | (_) % | (_) % | (_) % | (_) % | (_) % | (_) % | | | |
| 17-21 | (1) 4.5 | (2) 9.1 | (2) 9.1 | (6) 27.3 | (11) 50.0 | (22) 21 | | | |
| 22-26 | | (8) 23.5 | (4) 11.8 | (6) 17.7 | (16) 47.1 | (34) 32.4 | | | |
| 27-31 | (1) 10.00 | (1) 10.00 | (1) 10.00 | (3) 30.0 | (4) 40.0 | (10) 9.5 | | | |
| 32-36 | | (1) 7.1 | (1) 7.1 | (8) 57.1 | (4) 28.6 | (14) 13.3 | | | |
| 37-41 | | (2) 25.0 | | (4) 50.0 | (2) 25.0 | (8) 7.6 | | | |
| 42-46 | | (1) 16.7 | | (1) 16.7 | (4) 66.7 | (6) 5.7 | | | |
| 47 -51 | | (1) 25.0 | | (1) 25.0 | (1) 25.0 | (4) 3.8 | | | |
| 52-56 | (1) 25.0 | | | (1) 25.0 | (2) 50.0 | (4) 3.8 | | | |
| 57-61 | | | | | (1) 100.0 | (1) .95 | | | |
| 62-66 | | (1) 100.0 | | | | (1) 100.0 | | | |
| 67+ | (1) 33.0 | (1) 33.0 | (1) 33.0 | | | (3) 2.9 | | | |

= 105; Somers (-.081; p=.364).

| | Strongly Agree | Agree | Neutral | Disagree | Strongly Disagree |
|--|-------------------|--------------|-------------|--------------|----------------------|
| | (_) | (_) | (_) | (_) | (_) |
| | % | % | % | % | % |
| My illness is a serious condition | (28) | (43) | (23) | (8) | (3) |
| | 26.7 | 41 | 21.9 | 7.6 | 2.9 |
| My illness has major consequences on my life | (41) | (50) | (7) | (6) | (1) |
| | 39 | 47.6 | 6.7 | 5.7 | 1 |
| life | | (4) 3.8 | (4) 3.8 | (45) 42.9 | (52) 49.5 |
| consequences | (39) | (33) | (13) | (17) | (3) |
| | 37.1 | 31.4 | 12.4 | 16.2 | 2.9 |
| I get depressed when I think about my illness | (23) | (33) | (22) | (19) | (8) |
| | 21.9 | 31.4 | 21 | 18.1 | 7.6 |
| My illness makes me feel angry | (16) | (39) | (19) | (20) | (11) |
| | 15.2 | 37.1 | 18.1 | 19 | 10.5 |
| My illness makes me feel afraid | (18) | (35) | (19) | (22) | (11) |
| | 17.1 | 33.3 | 18.1 | 21 | 10.5 |
| Having this illness makes me feel anxious | (30) | (46) | (17) | (12) | (4) |
| | 28.6 | 43.8 | 16.2 | 11.4 | 3.8 |
| I accept my illness diagnosis and that it can't be changed | (26) | (46) | (17) | (12) | (4) |
| | 24.8 | 43.8 | 16.2 | 11.4 | 3.8 |
| I am used to the idea that I have a chronic illness | (32) | (47) | (9) | (15) | (2) |
| | 30.5 | 44.8 | 8.6 | 14.3 | 1.9 |
| Sometimes when I think about my illness, I say to myself 'this isn't real' | (5) 4.8 | (28) 26.7 | (10) 9.5 | | |

=105.

| | A lot | Medium Amount | Little bit | Not at all | |
|---|-------------------|------------------|------------|------------|----------------------|
| | (_) % | (_) % | () % | (_) % | |
| I spend time grieving the person I was | (12) | (24) | (30) | (39) | |
| before the onset of my illness | 11.4 | 22.9 | 28.6 | 37.1 | |
| | Strongly Agree | Agree | Neutral | Disagree | Strongly Disagree |
| | (_) | (_) | (_) | (_) | (_) |
| | % | % | % | % | % |
| I often view my body as a barrier | (28) | (40) | (23) | (13) | (1) |
| | 26.7 | 38.1 | 21.9 | 12.4 | 1.0 |
| I have felt judged by others regarding the legitimacy of my symptoms | (55) | (30) | (8) | (9) | (3) |
| | 52.4 | 28.6 | 7.6 | 8.6 | 2.9 |
| see me | (7) | (25) | (20) | (28) | (25) |
| | 6.7 | 23.8 | 19 | 26.7 | 23.8 |
| Despite my illness, I feel just as capable as the next person of completing college and holding a job | (45) 42.9 | (30) 28.6 | | | |

environment and how that environment defines disability (Evans et al., 2017). Also known to impact identity is the way others view a person in terms of their chronic illness, in which others' perceived feelings become internalized (Evans, 2017). The process of identity development is fundamentally a social process in which "identities are formed through mirroring, modeling, and recognition through available identity resources" (Forber-Pratt et al., 2017, p. 198). According to social identity theory, "people prefer to see themselves in a positive light, which implies that there will be a general search for positive distinctiveness in their perceptions of and dealings with other groups" (Brown, 2020, p. 5). A key finding is that 81% of respondents agreed or strongly agreed that they have felt judged by others regarding the legitimacy of the symptoms caused by their chronic illness. However, in a seeming contradiction, when asked to respond to the statement "My illness strongly affects the way others see me," just over half (50.5%) disagreed or strongly disagreed with this statement.

The vast majority of participants (89.6%) agreed or strongly agreed that there have been occasions when they have avoided social situations because of their chronic illness. However, it is important to note that avoiding social situations on occasion because of a chronic illness does not necessarily mean that living with a chronic illness prevents one from sustaining close relationships with others. In fact, over half (56.2%) of the participants agreed or strongly agreed that their chronic illness has not affected their ability to sustain close relationships. The ability to sustain close relationships has the potential to impact one's identity. Taken together, the findings in Table 7 suggest that having a chronic illness profoundly affects, in a number of ways, one's identity and construction of self.

Research Question 3

The third research question asked how female students with an invisible chronic illness adjust to and cope with their chronic illness in the new context of college. Findings are reported in Table 8, which shows that participants reported using a number of strategies to adjust to college and to cope with their chronic illness. Only a small percentage (7.6%) reported self-medicating with drugs or alcohol as a way of coping and instead, respondents (54.3%) were much more likely to report seeking out support and someone to talk to about how they felt. The results in Table 8 also indicate that time management is an important consideration for students with a chronic illness. Almost three fourths (74.3%) of respondents agreed or strongly agreed with the statement, "I manage my time by planning ahead and prioritizing activities according to limited energy and phases of fatigue" and over half (55.2%) indicated that they either spend "quite a bit" or "a great deal" of time arranging their schedule so that they could more easily do the things they need to get done in daily life because of their illness. Taken together, the findings here suggest that the majority of the respondents living with an invisible chronic illness engage in a number of adaptive coping strategies such as time management, and seeking social support while attending college.

Research Question 4

Research Question 4 asked how female college students with an invisible chronic illness perceive the effectiveness of accommodations provided by individual instructors, DSS, and the university overall. Results for this question, presented in Table 9, reveal that about a quarter of respondents (24.7%) disclosed their illness to instructors only if necessary. In fact, 18.1% of survey respondents reported that they have felt they have had to disclose their chronic illness to instructors when they were not comfortable doing so. In terms of comfort with the process of disclosing to instructors, a significant percentage (43.8) reported discomfort. Over half (56.2%) of the survey respondents reported that they had not received accommodations from instructors for their chronic illness. Of the participants who have received accommodations from instructors (43.8% of the sample), 58.7% agreed or strongly agreed that the accommodations they received were appropriate, 56.5% agreed or strongly agreed that the accommodations were adequate, and 77.1% of respondents indicated that they had never been denied an accommodation from an instructor.

Over two thirds (67.3%) of respondents had not registered with DSS. Of those respondents who had registered with DSS, only about 40% (41.2%) felt that the process to register with DSS at this university was easy. These respondents were also asked to evaluate how knowledgeable the DSS office was concerning chronic illnesses. Over half (52.9%) took a neutral position, neither agreeing or disagreeing, while 7.6% either agreed or strongly agreed that the DSS office is knowledgeable of chronic illness and 8.6% disagreed or strongly disagreed. Almost half of the respondents (47.1%) were neutral concerning the adequacy of their accommodations provided by DSS. Almost a third (32.3%) agreed that accommodations received from DSS were appropriate, while 10.5% either agreed or strongly agreed and 5.7% either disagreed or strongly disagreed that DSS accommodations were appropriate.

Table 9 indicates that a large majority of the participants reported feeling valued as a student at this

| | A lot | Medium | Little bit | Not at all |
|---|-------|--------|------------|------------|
| | (_) | () | (_) | (_) |
| | % | % | % | % |
| I use alcohol or drugs to make myself feel better | (2) | (6) | (21) | (76) |
| | 1.9 | 5.7 | 20.0 | 72.4 |
| I drink alcohol or take drugs in order | (1) | (4) | (9) | (91) |
| to think about my illness less | 1.0 | 3.8 | 8.6 | 86.7 |
| When I need support, I talk to someone about how I feel | (11) | (46) | (26) | (22) |
| | 10.5 | 43.8 | 24.8 | 21.0 |

| | A great deal | Quite a bit | Moderate amount | A little | Not at all |
|---|-------------------|--------------|--------------------|--------------|----------------------|
| | (_) % | (_) % | (_) % | (_) % | (_) % |
| To what extent have you arranged your schedule so that you could more easily do the things you need to get done in daily life because of your illness | (29) 27.6 | (29) 27.6 | (24) 22.9 | (18) 17.1 | (5) 4.8 |
| To what extent have you thought about or reviewed how you were doing in accomplishing your disease management goals | (25) 23.8 | (26) 24.8 | (22) 21.0 | (27) 25.7 | (5) 4.8 |
| | 2X week | 1X week | 2X month | 1X month | Bi-monthly |
| I spendamount of time attending doctors' appointments related to my chronic illness | (2) 1.9 | (8) 7.6 | (18) 17.1 | (26) 24.8 | (51) 48.6 |
| | Strongly Agree | Agree | Neutral | Disagree | Strongly Disagree |
| I try to see my illness in a positive light | (18) 17.1 | (39) 37.1 | (28) 26.7 | (13) 12.4 | (7) 6.7 |
| I learn to live with my chronic illness | (39) | (55) | (8) | (2) | (1) |

(34)

32.4

(44)

41.9

(15)

14.3

(6) 5.7

(6)

5.7

I manage my time by planning ahead and prioritizing activities according to limited energy and phases of fatigue

Per

university. However, nearly half (48.6%) reported that university rules or policies have not made it easier for them to manage their illness. Respondents were also asked about their ability to create a flexible school schedule that they could adjust to meet their needs. The largest single percentage (43.8%) reported that they always or a lot of the time had flexibility to do so. Over half (56.2%) of participants reported that they engage in concealment strategies.

The three most common symptoms that participants listed as posing the biggest challenge to their success at this university included fatigue (76.2%), headaches (44.5%), and gastrointestinal issues (42.9%). Over half (60%) agreed or strongly agreed that they had felt pressure to take online courses as opposed to face-to-face courses because of their chronic illness, while just over half (51.5%) reported that their illness did not negatively impact their attendance. The two most commonly listed accommodations that are the most important to their success at this university were absence accommodations (55.2%) and extended time to complete assignments (31.4%). Taken together, the findings from this question suggest that most female students who are living with an invisible chronic illness will disclose their illness to instructors only when absolutely necessary. Fatigue was reported as the symptom that poses the biggest challenge to the success of students with chronic illness. Additionally, female students living with an invisible chronic illness at this university often considered requiring medical documentation a barrier to receiving accommodations, and that their most needed accommodation was absence accommodations.

Discussion

It is clear that the majority of female students surveyed feel that their chronic illness is a serious condition that has profoundly impacted their life. While the majority have come to terms with accepting their illness, large numbers of respondents reported that they continue to experience significant emotional effects, including anxiety, depression, anger, and fear. This finding is consistent with other research, which has also suggested that anxiety is prevalent amongst the chronically ill population (Adams & Proctor, 2010; Livneh, Martz, & Wilson, 2001; Vickers, 2017). Nearly all of the participants indicated that they have avoided social situations because of their chronic illness. Avoiding potential stigma in social situations could partially explain this finding because the vast majority of respondents reported having felt that others often misunderstand their illness and questioned the legitimacy of their illness symptoms (Goffman,

1963). The finding of participants

Implications

The findings in this study suggest the need for universities to review their policies that disadvantage students with hidden chronic illnesses. Universities should take into consideration how policies disadvantage students with invisible illnesses by using the British Social Model of Disability, which can help shed light on the struggles faced by students living with an invisible chronic illness. According to this model, when social structures, such as university departments and offices, fail not capture the chronic illness experience of African American women attending college. The heterogeneity of the factors mentioned above in this sample washes out between group differences, which can cause us to overlook important aspects of different individuals' experiences. For example, given that African American women are affected by Lupus at higher rates than any other female ethnic group, research regarding the chronic illness experience of African American college women is needed and necessary (Rosales & Person, 2003).

Additionally, because quantitative studies often fail to fully capture true depictions of the invisible chronic illness experience, authentic narratives of those living with invisible chronic illness while attending college are crucial to a complete understanding of such lived experiences (Moore, 2012). Detached, removed third parties have conducted most of the current research on this topic, which highlights the need for more research in this area to use an auto-ethnographic process to better capture the chronic illness experience (Green et al., 2005; Moore, 2012; Pena, 2014). Additionally, a participatory action approach may be helpful to researchers. Due to all participants being from the same geographical location, results cannot be generalized to all female college students living with a hidden chronic illness. Another limitation of this study is that the survey relied on the honesty and accuracy of the participants' responses.

The finding that 60% of the survey participants reported that they have felt pressured to take online courses due to their illness warrants further investigation. As noted, a significant percentage of the respondents reported that they had not registered with DSS. One possible reason for this finding is that students **traiggroor** (al(treath)) (TD(0.8(trant))) (TD(0.8(trant))) (TD(0.7(1(judg) TJ[0.9(thatb TJ[0.5(haver)] sTJ[0.7(regist through DSS because of their chronic illness. Another possibility is that students are fearful of discrimination and potential stigma that comes with registering with DSS, as this study revealed that fear of discrimer ra(pressury)] TJ[1.3(pe1(amo] TJ[0.6(thaton)] Ts) TjEMCETBT/P <</MCID 52>>BDC12 0 0 12 36 300.194 Tm-0 Carver, C. S., Scheier, M. F., & Weintraub, J. K. (1989). Assessing coping strategies: A theoretically based approach.

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