Nurse Support on Health Cadre Empowerment and the Influence on the Ability of Women’s Mentoring Human Immunodeficiency Virus/Acquired Immune Deficiency Syndrome

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Abstract

BACKGROUND: In the context of community empowerment, the role of nurses as health workers is very important to transform the knowledge and skills of cadres. However, the support of nurses in empowering human immunodeficiency virus/acquired immune deficiency syndrome (HIV/AIDS) health cadres has not been widely explained.

AIM: This study examines the effect of nurse support and empowerment on the ability of HIV/AIDS cadres to assist mothers with HIV/AIDS.

METHODS: This study used a cross-sectional approach. We involved 119 HIV/AIDS cadres including local residents who care about AIDS (WPA, n = 90), facilitators of families of hope (PKH, n = 17), and peer support groups (KDS, n = 12). Data collection was carried out from February to April 2020, the sample was selected using multistage cluster sampling in Kudus Regency, Central Java, Indonesia. Multiple linear regression analysis was conducted to determine the support of nurses, empowerment of HIV/AIDS cadres, and its effect on the ability of cadres in assisting women with HIV/AIDS.

RESULTS: We found that nurses’ support for the empowerment of HIV/AIDS cadres was low in almost all aspects (instrumental, informational, emotional, and affiliation). Nurse support and cadre empowerment affect the ability of HIV/AIDS cadres by 28%. Regression test formula $Y = -97.080 + 0.738X + 1.944X^2$.

CONCLUSION: The results showed that the four types of nurse social support may be interrelated and are generally still low in the process of empowering HIV/AIDS cadres. There is an effect of nurse support and empowerment of HIV/AIDS cadres on the ability of cadres to assist women with HIV/AIDS.

Introduction

Human immunodeficiency virus/acquired immune deficiency syndrome (HIV/AIDS) cadres as community nurse partners mobilize residents and communities. They serve in an effort to help deal with HIV problems. The presence of cadres addresses the shortage of health workers in low- and middle-income countries. This is due to unequal distribution and the need to accelerate progress toward universal health. Globally, there are more than 5 million community health workers who are active and proven effective in providing services to the community [1]. In addition, community involvement in various health problem management programs has saved a lot of costs [2].

Cadre involvement occurs when there is sensitivity to the various needs of people living with HIV/AIDS (PLWHA) as a vulnerable group in society. This level of engagement can evolve from simply receiving information, consultation, collaboration, and control [3]. Cadre activities include providing information to the community as well as community outreach which is a systemic problem that occurs in a weak health system [3], [4]. Studies show that health cadres have succeeded in increasing access to health-care services, improving programs to prevent HIV transmission among women, and reducing HIV/AIDS mortality [5], [6].

In Indonesia, community participation in HIV and AIDS prevention efforts has been regulated in the Minister of Health Regulation No. 21 of 2013. The policy on HIV and AIDS prevention is stated in article 51 paragraphs 1 that the community participates include: (1) Promoting healthy living behavior; (2) increasing family resilience; (3) preventing stigma and discrimination against HIV-infected people and their families; (4) forming and developing local residents who care about AIDS; and (5) encourage community members who have the potential to carry out risky acts of contracting HIV to check themselves into...
voluntary counseling and test service facilities. The community needs to be empowered through a series of interventions to increase the capacity of themselves or groups [3].

The elements of HIV/AIDS health cadres in the Kudus district consist of peer support groups (KDS), AIDS care residents (WPA), and family hopeful program companions (PKH). Each element of the HIV/AIDS cadre has a different history. PKH cadres are social assistants to poor families or beneficiaries. Its main task is to mediate, facilitate, and advocate for changes in family behavior. They are recruited and received salary compensation by the Ministry of Social Affairs with a Decree of the Director General of Social Protection and Security. KDS cadres were formed at the initiation of fellow HIV/AIDS sufferers as a social community to share life experiences. The majority of KDS cadres are volunteers without salary compensation, but three of them were recruited by the Kudus district health office as outreach workers and assistants for PLWHA. They raise solidarity and help each other with fellow PLWHA sufferers. Meanwhile, WPA cadres are a form of public participation in HIV/AIDS health issues, volunteers without salary compensation. The formation of cadres was initiated by a non-governmental organization.

Nurses have the competence to strengthen service programs related to HIV/AIDS, oversee policy and regulatory reform in the context of task transfer, division of tasks, and the scope of nursing practice [7]. Nurses develop empowerment of HIV/AIDS health cadres with partnerships as an effort to deal with the problems of the HIV/AIDS epidemic.

Empowerment is understood as an outcome and as a “mediator.” Transformation occurs when a good relationship (right relationship) between one and more levels of the human system and nurses as agents of change promotes care without judgment [8]. Good relationships are defined as all organizational patterns in the system that supports, encourages, enables, or produces transcendence and self-actualization [9]. If a good relationship is not established, then the potential of community members to participate consciously in change cannot be fully empowered. Previous research suggested the philosophical model of health cadre empowerment by building community health services as partners [10].

In the context of community empowerment, the role of nurses as health workers is so important to transform the knowledge and skills of cadres. Various supports are needed to improve the capacity of cadres in assisting and assisting the needs of women with HIV/AIDS in their area. However, how much nurse’s support in empowering HIV/AIDS cadres is not widely known. This study aims to determine the effect of nurse support and cadre empowerment on the ability of HIV/AIDS cadres to assist women living with HIV/AIDS.

### Materials and Methods

This study used a cross-sectional approach. The inclusion criteria included in this study were female health cadres, active in the community in the past 3 months, Muslim, had exposure to HIV/AIDS material, and lived permanently in the Kudus area. The sample size is calculated based on the table of determining the number of samples from Isaac and Michael at an error rate of 5% from the target population of 180 people. We involved 119 HIV/AIDS cadres including local residents who care about AIDS (WPA, n = 90), facilitators of families of hope (PKH, n = 17), and peer support groups (KDS, n = 12). Data collection was carried out from February to April 2020, the sample was selected using multistage cluster sampling in Kudus Regency, Central Java, Indonesia.

The research instrument consisted of cadre’s demographic sheets, nurse support, empowerment of HIV/AIDS health cadres, and the ability of cadres to assist the needs of HIV/AIDS women. The questionnaire was modified from an existing instrument and has met the convergent validity test. Overall indicators of all variables produce cross-loading > 0.5 and average variance extracted (AVE > 0.5) value. The cross-loading and AVE of each instrument are as follows: Nurse support on informative indicators = 0.847; emotional=0.774; instrumental=0.944; and affiliation=0.874 (AVE = 0.743). The results showed that the effects of empowerment of HIV/AIDS health cadres on the indicators of connectivity with health services (0.796), self actualization (0.685), and appreciate diversity (0.767) with AVE value of 0.563. Meanwhile, the findings showed the effects of ability of HIV/AIDS health cadres on the indicators of accompanying physical needs (0.930), accompanying emotional needs (0.934), assisting social needs (0.970), and accompanying spiritual needs (0.962), with AVE value of 0.901.

The instrument used has also been tested for construct reliability. If composite reliability > 0.7 and Cronbach alpha > 0.6, then the construct is declared reliable [11]. Composite reliability and Cronbach alpha values for each variable were nurse support (0.884; 0.920), cadre empowerment (0.613; 0.794), and the ability of HIV/AIDS health cadres (0.964; 0.973). Thus, all indicators are declared reliable in measuring the variables.

Data were analyzed descriptively and inferentially using the Statistical Package for the Social Science (SPSS), Version 22 (Armonk, NY: IBM Corp). The level of significance was set at p < 0.05. Descriptive analysis (mean, frequency, standard deviation, and percentage) was used to describe the univariate characteristics. Multiple linear regression analysis was conducted to determine the support of nurses, empowerment of HIV/AIDS cadres, and its effect on the ability of cadres in assisting women with HIV/AIDS.
This research has received ethical approval from the Ethics Committee of the Faculty of Nursing, Airlangga University with Ethical Approval No. 1907-KEPK. Complete information about the aims and objectives of the study is explained in advance and the subject has the right to accept or refuse to be involved in this study by giving informed consent.

Results

Nurses provide informational, emotional, instrumental, and affiliation support to HIV/AIDS cadres from WPA, PKH, and KDS elements in Kudus Regency, as shown in Table 1.

Table 1: Description of nurse support variables on elements of HIV/AIDS health cadres in Kudus Regency in 2020 (n = 119)

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Mean</th>
<th>Median</th>
<th>SD</th>
<th>Min-max</th>
<th>CI 95%</th>
</tr>
</thead>
<tbody>
<tr>
<td>PKH</td>
<td>8.00</td>
<td>8</td>
<td>2.26</td>
<td>4–12</td>
<td>6.84–9.16</td>
</tr>
<tr>
<td>WPA</td>
<td>8.57</td>
<td>9</td>
<td>3.91</td>
<td>3–15</td>
<td>7.75–9.39</td>
</tr>
<tr>
<td>KDS</td>
<td>7.97</td>
<td>6</td>
<td>3.93</td>
<td>4–15</td>
<td>7.16–10.17</td>
</tr>
<tr>
<td>Emotional</td>
<td>PKH</td>
<td>17.94</td>
<td>17</td>
<td>2.98</td>
<td>14–22</td>
</tr>
<tr>
<td></td>
<td>WPA</td>
<td>17.68</td>
<td>18</td>
<td>3.64</td>
<td>9–24</td>
</tr>
<tr>
<td></td>
<td>KDS</td>
<td>16.08</td>
<td>16</td>
<td>2.64</td>
<td>11–20</td>
</tr>
<tr>
<td>Instrumental</td>
<td>PKH</td>
<td>6.12</td>
<td>6</td>
<td>1.86</td>
<td>3–9</td>
</tr>
<tr>
<td></td>
<td>WPA</td>
<td>5.39</td>
<td>5</td>
<td>2.78</td>
<td>2–10</td>
</tr>
<tr>
<td></td>
<td>KDS</td>
<td>4.67</td>
<td>4</td>
<td>2.22</td>
<td>2–8</td>
</tr>
<tr>
<td>Affiliation</td>
<td>PKH</td>
<td>9.65</td>
<td>10</td>
<td>2.62</td>
<td>5–14</td>
</tr>
<tr>
<td></td>
<td>WPA</td>
<td>8.94</td>
<td>8</td>
<td>3.46</td>
<td>3–15</td>
</tr>
<tr>
<td></td>
<td>KDS</td>
<td>5.42</td>
<td>5</td>
<td>2.77</td>
<td>3–12</td>
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</tbody>
</table>


Table 1 shows that the information support from nurses received by WPA is the highest. PKH received the highest emotional, instrumental, and affiliation support. Meanwhile, the support for KDS in all indicators including informative, emotional, instrumental values has the lowest weight.

Table 2 shows that most of the respondents have facilitation of information transformation from nurses in the low category (42.9%). Most of the respondents received the attention of nurse assistance to cadres in carrying out their duties in the medium category (57.1%). Then, most of the assistance to cadres was in the form of goods or equipment to support cadre activities in the low category (40.3%). Most of the respondents considered the award affiliation in the low category or less (47.9%). Most indicators of empowerment of HIV/AIDS health cadres are in the medium category. However, connectedness to health services including responsibilities, task demands, and relationship harmony is still low (15.1%). Most of the respondents have the ability to assist the physical, emotional, social, and spiritual needs of women with HIV/AIDS which is still in the low category.

Table 3 shows the results of the R-square research of 0.28 which means that nurse support and empowerment of health cadres affect the value of the ability of HIV/AIDS cadres in assisting women with HIV/AIDS by 28%. Based on the results of the regression test, it can be concluded that the formula for the regression test model is Y = −97.080 + 0.738X1 + 1.944X2, meaning: (1) The constant of −97.080 states that if there is no X1 and X2, then the cadre’s ability level is −97.080; (2) the X1 regression coefficient of 0.738 states that every 1 point increase in the value of nurse support will increase the ability of cadres by 73.8%; and (3) the X2 regression coefficient of 1.944 states that every 1 point increase in the value of cadre empowerment will increase the ability of cadres by 194.4%. The model formula can be accepted because it has fulfilled the multiple linear regression assumption test.

Discussion

The findings of this study indicate that the four types of nurse support may be interrelated and are generally still low in the process of empowering HIV/AIDS cadres. Emotional support from nurses seems to be the beginnings of a partnership for the community
The purpose of assisting cadres to meet physical needs is to maintain a healthy physical condition, increase CD4 cell count, and undetectable viral load. The existence of emotional problems can damage the quality of life of PLWHA including stigmatization [20]. Special attention to psychological interventions and coping strategies is important to do to alleviate the suffering of women with HIV/AIDS, maintain mental health, and improve their well-being [21]. PLWHA also experience social problems, such as difficulty finding someone to discuss their illness with due to the
self-stigma of HIV. The problem of disclosure by HIV women has psychosocial factors that impact their ability to maintain health and well-being [22]. In Indonesia, this is a major problem for PLWHA. HIV/AIDS health cadres as companions must have spiritual values to love others, be non-judgmental, accept them as they are, empathy, respect, and tolerance [23]. The spirituality of cadres in general aims to support and helps reduce the concerns of PLWHA and makes them aware of their illness so that it is hoped that it will improve the lives of PLWHA. Community interventions have been shown to help HIV-positive women reduce self-stigma and develop effective means of status disclosure [24].

Mentoring the needs of women with HIV/AIDS is potentially carried out by WPA cadres, strengthening cadres from the previous peer support group (KDS) element, which had a very limited number of 12% of 119 respondents. Hence, the ratio is not balanced with the number of PLWHA which tends to increase year by year. This condition is almost the same in several countries, public awareness is still limited among fellow sufferers or peer support groups [25]. The participation and support of the wider community from elements of influential people such as community leaders, closed people, and spiritual leaders were still low [26], [27], [28]. Community involvement programs are still segmented, not comprehensively addressing the problems of PLWHA. Some of them include mobilizing the community, reducing the rate of loss to follow-up ART treatment, meeting emotional needs, physical needs, psychological interventions, and coping strategies [20], [21], [27], [29].

Nurse support is needed in the process of relations or partnerships between cadres and the health care system. In accordance with the nursing paradigm in the Rogerian Science of Unitary Human Beings [30] that health care focuses on maximizing one’s strengths and minimizing weaknesses. Nurses facilitate the ability of cadres and empower them to participate intentionally in achieving meaningful goals. In addition, the facilitation includes making changes and providing knowledge directly in shared situations.

### Conclusion

Nurse support on empowerment HIV/AIDS health cadre was low in informational, emotional, instrumental, and affiliation aspects. Cadre needs a work guidelines book, attention, empathy, appreciation, and equipment support in carrying out tasks in the community to improve the performance of cadres. The existence of HIV/AIDS health cadres is able to bridge the gap between health care and the community by providing health education that is appropriate to the local cultural context, assisting the needs of vulnerable groups of people with HIV/AIDS, and coordinating care for people with complex needs. The role of nurses in empowering cadres is as great as health workers who directly interact with the community. Health nurses at Community Health Centers (Puskesmas) services as stakeholders can combine cadres as members of the care team provide support and ensure empowerment goes well. Nurse support can be realized if simultaneously, there are efforts to strengthen the health system itself with the synergy of stakeholders in addressing HIV/AIDS issues as regional health issues and strengthening the regulatory function through the development of operational policies at the Community Health Center (Puskesmas) level.

### References


PMid:19345857
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