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FACTORS AFFECTING PHYSICAL SELF-CARE AMONG PATIENTS WITH TUBERCULOSIS

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ABSTRACT

Physical self-care is necessary to encourage patient involvement in health care in order to improve health outcomes among tuberculosis patients. However, factors relating to support of physical self-care among tuberculosis patients who are under treatment has very rarely been considered. This study aimed to identify the correlation between the coping strategy, the self-care management process and family well-being as factors associated with physical self-care. This is a correlation study was conducted among forty-five tuberculosis patients using purposive sampling. Data were collected in a follow up session after implementing a self-management support intervention using a physical self-care, coping strategy, self-care management process and family well-being questionnaire. The Pearson test was used to analyze the data. There was a significant association between self-care management process (r= 0.590; p=0.000), family well-being (children) (r=0.331; p=0.000) and physical self-care. However, there was no relationship between family well-being (parent) (p=0.789), coping strategy (p=0.874) and physical self-care among tuberculosis patients. Self-care management process and family well-being (children) are essential factors to improve physical self-care among tuberculosis patients. Therefore, an intervention which integrates those factors are important to enhance physical self-care among patients with tuberculosis

Key word: Coping strategy; family well-being; physical self-care; self-care management process

ABSTRAK

Physical self-care sangat diperlukan untuk meningkatkan keterlibatan pasien dalam meningkatkan kesehatan pada pasien tuberculosis. Akan tetapi, faktor-faktor terkait dengan keberhasilan pelaksanaan physical self-care pada pasien tuberkulosis yang menjalani pengobatan sangatlah jarang diperhatikan. Penelitian ini bertujuan untuk men 34 ntifikasi korelasi strategi koping, proses manajemen self-care dan kesejahteraan keluarga sebagai faktor-faktor yang berhubungan dengan physical self-care. Desain korelasi digunakan pada 45 pasien tuberculosis. Data diambil menggunakan teknik purposive selama sesi follow-up setelah pelaksanaan intervensi dukungan manajemen diri dengan kuesioner physical self-care, strategi koping dan proses manajemen self-care. Uji statistik Pearson digunakan untuk menganalisa data yang dikumpulkan. Hasilnya terdapat hubungan yang signifikan antara proses manajemen self-care (r= 0.590; p=0.000), kesejahteraan keluarga (anak) (r=0.331; p=0.000) dengan physical self-care. Sementara, kesejahteraan keluarga (orang tua) (p=0.789) dan strategi koping (p=0.874) tidak memiliki hubungan dengan physical self-care pada pasien tuberkulosis. Proses manajemen perawatan diri dan kesejahteraan keluarga adalah faktor penting untuk meningkatkan perawatan diri fisik di antara pasien TB. Oleh karena itu, intervensi yang mengintegrasikan strategi koping dan kesejahteraan keluarga (anak) penting dalam meningkatkan physical self-care pada pasien tuberculosis.

Kata Kunci: Strategi koping, kesejahteraan keluarga, physical self-care, proses manajemen self-care

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BACKGROUND

Tuberculosis is one of the most infectious diseases leading to a high mortality rate on a sorldwide scale (WHO, 2017). Globally, in 2017, 10.0 million people had tuberculosis disease; 5.8 million men, 3.2 million women and 1.0 million children (WHO, 2017). Indonesia has become the top 3rd country after India and China in the WHO's list of the 30 highest TB infected countries with 8% of the population suffering from tuberculosis disease (World Health Organization [WHO], 2018). Moreover, approximately 558.000 people have experienced drug resistance (specifically resistance to rifampicin the most effective first line drug) and 82% of them were multidrug-resistant (WHO, 2018). In 2017, the incidence of drug resistance was announced as a crisis in Indonesia where it was estimated at about 32.000 people or 12/100.000 population (WHO, 2018).

Several studies have revealed that patient characteristics such as being previously treated with anti-TB drugs, living in a rural setting, being a smoker, being an alcoholic, chewing tobacco, having a body mass index below the normal range, and having a low socioeconomic status are the most common causes of MDR-TB (Shah, Shag, & Dave, 2018; Desissa, Workineh, & Beyene, 2018). The previous study by Stosic, et al. (2018) showed that the development of MoR-TB has also been influenced by the monthly income of the family, having poor confidence, defaulting from treatment, the stigma associated with TB, having a subjective feeling of sadness, the use of sedatives, and chronic obstructive pulmonary disease. So that requires intervention with approach, comprehensive physical, mental, social and economic in providing treatment programs for patients with MDR-

Furthermore, the emergence of MDR-TB might be as a result of non-adherence to anti tuberculosis treatment (Charles, 2005; Tola, Tol, Shojaeizadeh & Garmaroudi, 2015; Wurie, Cooper, Horne, & Havyward, 2018). A study explained that the treatment adherence of tuberculosis patients itself is related to patients

knowledge, attitude, health education medication time (Ningsih, 2016). The success rate of TB treatment in Indonesia was approximately 52% in 2017 (WHO, 2018). Thus this rate indicates that the clinical care and treatment in the tuberculosis program were considered poor and it therefore lead to treatment failure. A failed treatment plan contributes to a higher morbidity and mortality rate for tuberculosis patients (Wurie, Cooper, Horne, & Hayward, 2018).

The adverse effects of pulmonary may include physical, social, economic, and psychological impacts (Dwidiyanti & Suryawati, 2017) The physical effects can be in the form of coughing up blood, shortness of breath, sweating at night without physical activity, fever, pallor e, chest pain, and weakness (Dwidiyanti & Survawati, 2017). Socially, pulmonary TB also causes the patients to lack confidence because they excommunicated and experience a bad stigma from the community (Kemenkes RI, 2011). It is estimated that 20-30% of the income of pulmonary TB patients is lost because 75% of patients are in the productive age group, i.e., 15-50 years old (Kemenkes RI, 2011). Furthermore, pulmonary TB disease also has an impact on the patients' psychology, such as experiencing emotional problems, as well as coping strategies and family support (Venkatrajul, 2013).

The inadequate treatment outcome among tuberculosis patients has been affected by health systems, socio cultural and patient-related barriers (Oladimeji, Tsoka-Gwegweni, & Udoh, 2017). Patients are mostly dealing with complex issues such as difficult and inequitable access to health services and having the opportunity to interact with the health workers (WHO, 2007; Oladimeji, Tsoka-Gwegweni, & Udoh, 2017). In the 1990s, the hindrances might have been caused by the health reform, which intended to give less attention to community involvement in development of the health system, focusing more on technical, managerial and economic sectors (WHO, 2008). Lately, policy-makers, health workers and care providers have increasingly shown an

interest in patient empowerment and involvement in order to manage and control their disease (WHO, 2007). Patient participation has allowed them to take more responsibility for their heath, to comply with the treatment, and ensure patient centered care (WHO, 2007). Effective patient involvement also gains positive results in improving treatment outcomes and developing the awareness of patients about their health (WHO, 2008).

Coping strategies are used by the patients to resolve the stress they experience due to the illness (Jones, 2003). The coping strategies can be positive or negative and will affect the mental health aspects of patients with chronic diseases, influencing their ability to perform physical, mental and social selfcare (Jones, 2003). Thus, the researchers are interested in finding out whether coping strategies have an effect on physical self-care.

Self-care strategies are defined as the self-care behaviors that patients adopt to manage symptoms (Doran, 2011). Inherent in this definition is the patient's self-belief in their ability to choose strategies to manage their symptoms (Doran, 2011). Educational selfprograms management have demonstrated some effects which can ve a favorable influence on behavior d to smoking, alcohol consumption, nutrition and weight control, and breast selfexamination in the general population (Doran, 2011). The effects include a moderate pasitive effect on self-care behaviors in patients with various conditions, a strong positive effect on medication compliance in patients with hypertension, a strong positive effect on adherence to areatment, use of PRN medications, and psychomotor skills related to the use of inhaler in adults with asthma, enhanced appropriate use of medications, and increased knowledge and self-efficacy related to stil-care behaviors in patients with COPD (Chronic Obstructive Pulmonary Disease) (Doran, 2011). Strategies of self-care can be both negative and positive effect The effect of management of a symptom should include overall improvement in health status, the

ability to undertake activities related to daily living, and resumption of a normal social life (Fitzpatrick, 2016)

Self-care is the most dominant and universal form of primary care and it is an important process where by a person manages his behavior or life style, including disease prevention, detection and treatment within the health care system (Bhuyan, 2004). Studies have revealed that individuals and families have the biggest role in caring for the patients with the illness (Committee on Family Caregiving for Older Adults, et al. 2016). It revealed that patient self care is highly necessary 200rder to achieve better health outcomes. Three main components of selfcare are emotional self-care, spiritual selfcare and physical self-care (Utah State University, 2018). In this case, developing adequate treatment among tubercussis patients should start with physical selfcare. Physical self-care is defined as activities that improve individual physical health, including diet management and exercise and it also includes taking a medicine (Utah State University, 2018). Therefore, physical self-care is very important for patients.

Holistic health services should involve the families especially for patients with chronic diseases (Umah, 2017). It is, therefore, important to pay attention to family welfare in order to enable patients to perform self-care independently. TB patients need to have prolonged treatment and therefore they need the ability to care for themselves, and improve their skills during the healing process (Doran, 2011). It is necessary to have a management process in place in order to make the patients become more independent, especially related to improving their confidence, their awareness of the nature of the disease and their decision making ability so that the patients are to be able to care for independently and holistically (Dwidiya 12 Wiguna, & Hasanah, 2018).

The ability of patients to perform independent self-care can be an indicator of the success of TB treatment (Venkatrajul, 2013). The previous research shows that the independent cactice of physical self-care is important to improve the quality of life of patients (Umah, 2017).

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However, there are pulmonary TB patients who are unable to cope with physical complaints and feel ashame to the disease they have. Therefore, this study the correlation between coping strategies, the self-care management process and family well-being both for parents and children as factors associated with physical self-care.

13 METHODS Research Design

This study was designed as a correlation study with a cross-sectional approach.

Sample and Setting

Participants were all tuberculosis patients, enlisted from a medical center located in Lamongan, East Java, Indonesia. This data was collected during a follow up session after a 4 weeks intervention about selft-care management. Four time' activities were to give knowledge and improve skills on how to take care of the physical aspects of care such as taking medicine, having a diet program, how to get enough sap and doing exercise. A purposive sampling technique was used to recruit the samples. The inclusion criteria were adult patients with pulmonary TB, who did not have other deases such as HIV, DM, and Hepatitis, and were willing to be respondents. The exclusion criteria were adult patients with incomplete data in the pulmonary health center. 45 people who fulfilled both the inclusion and exclusion criteria were sampled in this study.

Research Instrument and Data Collection

Data were collected immediately after the informed consent was received. Informed consent was given after an explanation of the purpose of the research, the benefits of the research and the confidentiality of the respondent's data. The questionnaires were distributed directly to the patients with some instructions explained clearly.

A self-administered questionnaire was used to measure the data. Sociodemographic information of participants was collected. Physical self-

care questionnaire, coping strategy questionnaire, (SCMP-G) and Family well-being assessment tool.

To measure physical self-care, this study used a questionnaire developed by Umah (2017) with cronbach alfa = 0.78. This questionnaire consisted of 9 question items with dichotomous answers (yes=1; no= 0). Then, the level of physical self-care was categorized into three levels, as follows: independent (scores 0-3), starting to be independent (scores 4-6), and dependent (scores 7-9).

The coping strategy questionnaire had 42 items with cronbach alfa = 0.888 and with a likert scale of never, sometimes, often, or always and divided into levels: good (≥85), moderate (43-84) and poor (≤42) (Folkman & Lazarus, 1988).

Self-care management process-guarding (SCMP-G) had 20 items with cronbach alfa = 0.724). This variable was divided into 3 levels good (≥131), moderate (104-130) and poor (≤103) (Jones, 2003).

Then, the family well-being assessment tool parent had 42 items, cronbach alfa = 0.943 with levels: good (\geq 194), moderate (133-193), and poor (\leq 132) and the children section had 33 items, cronbach alfa = 0.916 with levels: good (\geq 152), moderate (106-151), and poor (\leq 105) (Caldwell, 1988). Both SCMP-G and the family well-being questionnaire used sikert scale which was sub-scaled into strongly agree, agree, neutral, disagree and strongly disagree.

Data Analysis

The data was analyzed by using the Statistical Package for Social Sciences (SPSS) version 16. Demographic data, level of physical self-care, level of coping strategies, the self-care management process, as well as the level of family wellbeing, were measured using categories (presentation) and measuremess (mean SD). The Pearson correlation test was used to determine the relationship between the level independence and coping strategies, the level of independence and patients' independence process, and the level of independence and welfare (parents and

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children) with a significant value of p of <0.05.

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Ethical Consideration

The study had been ethically approved by the research commission with ethical clearance number 601/EC/FK-RSDK/2016. As a guarantee, the researcher who delivered the information related to the study to the respondent, explained ut the confidentiality and anonymity of the study and asked the participants to sign the research informed consent form.

RESULTS Demographic Characteristics

45 Table 1 presented the details of the demographic characteristics of participants. The majority of respondents were (64.4%) male and (95.6%) married. On average, participants had 3 children (SD±1.2) and the mean age of participants was about 39.8 years (SD±14.2)

Table 1. Demographic chara(24) ristic of tuberculosis patients (n=45)

tuberediosis patients (n=40)			
Demographic Characteristics	n <i>(%)</i>		
Gender			
Male	29 (64.4)		
Female	16 (35.6)		
Marriage Status			
Single	0 (0)		
Married	43 (95.6)		
Divorced	2 (4.4)		
The number of children, mean (SD)	3 (1.2)		
Age (year), mean (SD)	39.8 (14.2)		

Physical Self-care

Physical self-care amongst tuberculosis patients was found in the majority of respondents to be at the beginning to be independent level (55.6%) as summarized in Table 2. Almost thirty (28.9%) participants were independent, whereas a quarter (15.5%) of respondents were classed as being dependent.

Table 2. Physical self-care among tuberculosis patients (n=45)

Physical self-care level	n (%)	Mean (SD)
Independent	13 (28.9)	50,84
Begin to be independent	25 (55.6)	Upper 58
Dependent	7 (15.5)	Lower 43

Self-care Agency of Physical Self-care

The findings relating to the selfcare agency of physical care detailed in Table 3 Showed that overall participants had a moderate level of self-care agency. Specifically, almost two-eighths (62.2%) of participants had a moderate coping strategy (M=98.33 SD±7.12). The self-care management process, for around half of participants, was found to be moderate (M=116.33 SD±5.31). Family well-being was at a moderate level both among parents (66.7%) and children (55.6%). A poor level of family well-being was only experienced by 11.1% of parents and 22.2% of children. The mean family wellbeing of parents and children was 143.22 (SD±5.35) and 118 (SD±6.96).

Table 3. Self-care agency among tuberculosis patients (n=45)

tuberculosis patients (n=45)				
Variable	n (%)	Mean (SD)		
Coping strategy				
Good	10 (22.2)	98.33 (7.12)		
Moderate	28 (62.2)	Lower 80		
Poor	7 (15.6)	Upper 112		
Self-care				
management				
process	9 (20)	116.33 (5.31)		
Good	28 (62.2)	Lower 126		
Moderate	8 (17.8)	Upper 107		
Poor				
Family well-being				
(parent)				
Good	5 (11.1)	143.22 (5.35)		
Moderate	30 (66.7)	Lower 151		
Poor	10 (22.2)	Upper 134		
Family well-being				
(children)				
Good	10 (22.2)	118 (6.69)		
Moderate	25 (55.6)	Lower 129		
Poor	10 (22.2)	Upper 105		

The Relationship Between Self-care Agency and Physical Self-care Among Tuberculosis Patients

The correlation between self-care agency and physical self-care among tuberculosis patients was summarized in Table 4. Self-care management process (p=0.000) and family well-being (children) (p=0.000) significantly correlated with physical self-care with a p-value of <0.05. Meanwhile, the coping strategy did recorrelate with physical self-care with the p-value of 0.874 (p>0.05). As well as this, there was no correlation between family

vssl-being (parent) and physical self-care (p=0.789).

Table 4. Relationship between agency and physical self-care among tuberculosis patients (n=45)

Variable	R	p value
Coping strategy	0.031	0.874
Self-care management process	0.590	0.000
Family well-being (parent)	0.155	0.789
Family well-being (children)	0.331	0.000

DISCUS

This study established that the self-care management process and family well-being (children) are associated with physical self-care. The patients necessarily become involved in every treatment program independently. The successfulness of physical self-care certainly involves several factors. Orem in her theory (Alligood, 2014) divided selfcare into four components which shave a influence including: self-care direct ager , self-care demand, nursing agency and self-care deficit. Self-care agency has been defined as the ability of the individual to care for them to ves. A previous study explained that self- care agency was directly related to self-care where physical self-care was one of several components in self-care (Suhardingsih, Mahfoed, Hargono, & Nursalam, 2012). Self-care agency has several domains, namely skills, physical domains, cognitive emotional domains and behavioral domains that are important for overall selfcare skills (Doran, 2011).

This research shows that there is a correlation between the self-care management process and physical selfcare. This study is similar to a previous study by Kapun, Sustersic, & Bajkovic (2016) which explained that the self-care process has a positive impact on the functionality and satisfaction of patients. The self-care process helps tuberculosis patients to be aware of physical self-care which is where the individual takes action in the areas of disease detection, prevention and treatment on their own behalf (Levin, 1976). The process of selfdevelops patients' self-love. compassion, their willingness to create a healing environment, and to learn to

create constructive behaviors and attitude (American Holistic Nurses Association [AHNA], 2019). The self-care management process identify can perceived vulnerability, perceived controllability, selfabsorption and a patient's sense of obligation (Strickland and Dilorio, 2003). So when patients have a high perceived vulnerability. а high perceived controllability, high self-absorption and a high sense of obligatio 47 this makes the patient more aware of the importance of physical safe-care. The self-care management process is very influential on the physical self-care of TB patients. To perform self-care management, patient's needs to have the self-efficacy to care for themselves. Therefore, when the selfefficacy increases, the patients' ability to be physically independent also increases (Noorratri, Margawati & Dwidiyanti, 2017). The patient requires not only physical but also emotional independence, which affects their health as a whole (Namuwali, Mendrofa, & Dwidiyanti, 2016).

Family well-being (children) was found to be associated with physical selfcare. Most of the tuberculosis patients had 3 children. This study is simillar to a previous study conducted by Nakaoka et al. (2006) which revealed that 74% (53/72) of children who participated in the study had maintained contact with their parents who were smear-positive TB. This could make the patients worry about their family well-beina (children). WHO explained that tuberculosis patients with children under 5 years old have a high risk of transmitting tuberculosis virus/bacteria. This will affect patient's moves toward physical self-care due to fear of transmitting the disease.

Family well-being is one of the factors related to physical self-care. This study found that family well-being (parent) did not correlate to physical self-care. This can be affected by several factors such as parent's existence, age, and marital status (Alligood, 2014). The physical self-care of patient's with parents who have died might be affected. The fact that the average age of patients was 39.8 years showed that most of them were married and their spouses supporting then 390 do physical self-care. Married patients were

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considered more likely to be succeasful with the tuberculosis treatment due to the fact that the patients have their spouses as supporters (Ali, Karanja, & Karama, 2017; Sengul, et al., 2015).

In other research, good support and care was considered as receiving the necessary attention and help in the daily routine, monetary help, emotional and moral support and motivation for early (Namuwali, 25endrofa, Dwidiyanti, 2016). The family provided support by accompanying the patient to the health centre, reminding them about providing meals medicines, and (Nagarkar, 2012). There is a positive relationship between family support and f-care behavior. When the respondent 17d received a high level of family support, they had initiated an adequate level of self-care behavior. These three aspects of support, combined with other supportive dimensions, such as intimacy support and moral support, may help family members develop a sense of security during stressful situations and provide them with opportunities to express their feelings and concerns, which can be beneficial for All self-care. psychological these supportive dimensions contribute to family members' feelings of being loved, cared for and valued; which can increase their hope, self confidence and self-esteem; increase their self-care knowledge and strengthen their self-care ability (Xiaolian, 2002).

The findings revealed that the coping strategy did 37 not correlate to physical self-care. However, there is limited research on how the coping strategy can affect physical self-care significantly. Suhardingsih, Mahfoed, Hargono, & Nursalam (2012) showed that the coping strategy did not directly correlate to physical self-care. The coping strategy may correlate to physical selfcare when there is a combination of professional encouragement and personal growth (Zaccari, 2017). However the strategy was affected confounding factors of self-care such as age, gender, marital status, and support (Alligood, 2014)

This study is in contrast with the result of the study by Sukartini (2017)

which showed that a proactive coping strategy had a positive correlation with self-care management in patients with pulmonary tubercensis. In Sukartini's study, the overall self-care management was assessed. Meanwhile, the present study only investigated the effect of coping strategies on physical self-care. The patients need to be mentally independent in order to be able to improve positive coping. Individuals who use proactive coping will take actions to solve the challenge by identifying and using the necessary resources (Sukartini, 2017). Positive coping strategies require mental independence; however, this study only measured physical independence, which was not affected by the coping strategies. Sousa (2002) explained that self-care agency has 3 components; 1) foundational 2) enabling and operational. Operational factors are related to an individual's ability to perform self-care (Carter, 1998). Self-care operations are the following a personal skill to recognize and their environment (family well-being); making judgments and decisions (coping strategy); and nursing implementation care (self-care management process) (Gas 43 et al., 1989; Sousa, 2002). The ability of self-care is beneficial for individual patients and the health care system (Doran, 2011). It is because self-care will increase patient's responsibility, control and autonomy (Dwidiyanti & Suryawati, 2017). Self-care is needed for patients with chronic conditions with a lengthy healing process (Doran, 2011). Physical self-care is defined as an activity that enhances an individual's physical health, including their diet, exercise, and medication (Lawn & Schoo, 2010) Patients with chronic conditions and lengthy treatment such as tuberculosis need the practice of physical self-care (Lawn & Sclap, 2010) .This study investigated the relationship between physical self-care, coping strategies, and the process of self-care management of family wellbeing (parents) and family well-being (children).

This study focused on exploring operational factors; coping strategies, self-care management process and family well-being as factors affecting the

accomplishment of physical self-care

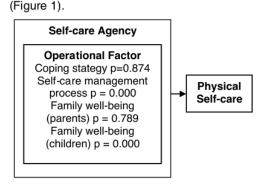


Figure 1.Factors related to physical selfcare

Some limitations in this research were acknowledged. This study was conducted in only one setting in Indonesia. The variable in self-care agency only focused on limited foundational and operational factors. Further research may broaden the research setting, increase the sample size and explore other factors of physical self-care.

The implications in this study can provide an evidence base for family and health workers in caring for TB patients and optimize the health status of TB patients and families. Self-care management intervention requires comprehensive actions, namely physical, mental, social and spiritual independence.

CONCLUSION

Self-care management process and family well-being (children) are correlated with physical self-care among tuberculosis patients whereas coping strategies and family well-being (parent) did not correlate with physical self-care for tuberculosis patients.

Therefore, health workers in professional health care should pay attention to factors influencing the physical self-care of the patients by helping and encouraging patients to improve, strengthen, and develop better self-care agency. An adequate intervention program with some interventions which include coping strategies and family well-being (children) is important be continuously delivered to patients in order to optimize

the self-care of patients with TB especially physical self-care. It is necessary to measure the level of independence as a whole, not only the physical, but also the level of mental, social and cultural independence.

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CONFLICT OF INTEREST

None

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