



# The Relationship between Parenting Self-Efficacy and Caregiver Burden in the Sandwich Generation

Afifa Surya Darmaning Tyas<sup>1</sup>, Fitri Ayu Kusumaningrum<sup>1\*</sup>

<sup>1</sup>Departement of Psychology, Universitas Islam Indonesia, Indonesia

Corresponding author's email: [fitriayukusumaningrum@uii.ac.id](mailto:fitriayukusumaningrum@uii.ac.id)

## ABSTRACT

The purpose of this research is to determine the relationship between parenting self-efficacy and caregiver burden that occurs in the sandwich generation. This is quantitative research with Burden Scale used to determine the Family Caregivers short-version scale and Parenting Sense of Competence of 110 women aged 30-50 years. The results explained a significant negative relationship between parenting self-efficacy and caregiver burden in the sandwich generation. The correlation coefficient value obtained was  $r = -0.469$  and  $p = 0.000$  ( $p < 0.005$ ). Therefore, the higher the level of parenting self-efficacy, the lower the caregiver burden experienced. Conversely, the lower the level of parenting self-efficacy, the higher the caregiver burden experienced, therefore, the hypothesis is accepted.

**Keywords:** Parenting Self-Efficacy; Caregiver Burden; Sandwich Generation

## 1. INTRODUCTION

Caregiver burden is described as a condition in which individuals feel depressed and discomfort due to their roles. According to Savundranayagam et al, this multidimensional construct is related to tension and anxiety (stress burden), changes in dyadic relations (relationship burden), and time violations (objective burden) that arise due to parenting tasks. Caregiver burden is also defined as a situation in which the parents feel burdened to an extent. It significantly influences their parenting style, health, risk of death, and sustainability in caring for the home [1].

This tends to negatively impact individuals, such as a decline in the provision of care, quality of life, and physical and psychological health. This is in line with Bastawrous's research that one of the negative impacts is the reduced provision of care, which decreases when caregiver is burdened [2]. Caregiver burden also impacts physical health, such as fatigue, stress, lost time during social interactions, and the emergence of financial problems [3].

However, this is common in the sandwich generation, where both parents and children share parenting demands and responsibilities. The individuals involved are bound by the dual responsibility of caring for a child and 1 or more elderly family members [4]. Meanwhile, those belonging to this generation tend to be 40 to 65 years [5]. Künemund stated that the sandwich generation comprises

those within the age range of 40 to 59 years, also known as middle adulthood, that bear the task of caring for both the elderly and younger family members.

Middle adulthood is characterized as the period individuals experience a balance in respect to various aspects of life. At this age, they balance work and relationship responsibilities amidst the physical and psychological changes associated with aging [7].

Demographic data states that 6.42% of the total 7.009 households in Indonesia are classified as the sandwich generation, and 10.9 to 11.3% constitute working-class women [8]. Kusumaningrum stated that 108 of them experiences a high level of approximately 24.07% of caregiver burden.

Based on the results of interviews with 110 female respondents categorized in the sandwich generation using a google form, it was discovered that physical, psychological, and financial complaints were regularly mentioned in terms of caring for both parents and children. Physical complaints include fatigue, severe migraine, nausea, dizziness, insomnia, knee and back pains, rheumatism, and frequent colds. Furthermore, the psychological complaints are irritability, crying easily, often feeling helpless, overthinking, emotional, frequently sad, and anxious. Financial complaints experienced only revolve around daily needs and debts and the feelings that these are not enough to support their children and parents.

A decline was recorded in the role of middle-adult women in the sandwich generation in terms of their parenting skills, health, and welfare. Furthermore, this also causes a more significant effect of stress and tension due to time constraints in both social life and leisure activities [9]. Women who take care of children and the elderly have unstable relationships due to lack of support and greater burden [10]. These roles also cause detrimental effects such as time pressure, negative emotional outbursts, and unrealistic expectations [11]. Furthermore, the parenting responsibilities of the sandwich generation tend to significantly influence self-care-mediated emotional exhaustion [12].

Several internal and external factors affect caregiver burden. The internal factors include gender difference [13], age [14], caregiver self-efficacy [15], and coping strategies [16]. Meanwhile, the external factors are social support [8], financial circumstances [17], and marital status [18]. According to Mathur et al individuals ready to handle caregiver burden have been identified as those with positive coping mechanisms, self-care, internal motivators, and possess intrinsic behaviours such as mastery, resilience, and self-efficacy. Among these, self-efficacy has been proven to influence individual behaviour and motivation significantly.

It is one of the main potential cognitive elements of competent parenting [20]. Moreover, Bandura proposed the self-efficacy theory concerning an individual's ability to carry out a specific task in a particular situation.

This research is based on preliminary research on caregiver burden, and parenting self-efficacy carried out in several countries. However, no research has investigated these attributes in women of the sandwich generation. Previous research revealed a negative relationship between parenting self-efficacy and caregiver burden [21]–[23].

According to some of the aforementioned literature reviews, it is evident that preliminary research analyses the relationship between caregiver burden and parenting self-efficacy. However, none has been discussed

concerning the sandwich generation, which led to the analysis carried out in this research.

## 2. METHOD

The research subjects are women aged 30 to 50 years who take care of their children, and biological parents as well as in-laws. This quantitative research obtained data by distributing questionnaires containing a scale of caregiver burden and parenting self-efficacy through google form media. Furthermore, these were compiled using a Likert scale where the subject was presented with several questions and then instructed to choose an answer sincerely from the several alternatives or options available.

The Burden Scale for Family Caregiver-Short (BSFC-s) consists of 10 items modified in Indonesian to measure caregiver burden. This is a shortened version of the Burden Scale for Family Caregiver (BSFC) designed by Graessel et al, using a Cronbach's alpha value of 0.900. Interestingly, aspects of the BSFC-s scale are inspectional. Furthermore, the Parenting Sense of Competence (PSOC) designed by Johnston and Mash and modified in Indonesian was used to measure parenting self-efficacy. This scale consisted of 17 items and was proposed with a Cronbach's alpha value of 0.795, while the PSOC scale consists of 2 aspects, namely satisfaction and efficacy.

The proposed hypothesis stated that there is a negative relationship between caregiver burden and parenting competence in the sandwich generation. The data analysis method used to manage the information obtained from the questionnaire is the Statistical Package for Social Science (SPSS) 26.0.0 software for windows.

## 3. RESULT AND DISCUSSION

This research carried out assumption, hypothesis, and correlation tests on several demographic data. First, the assumption test, which includes normality and linearity were carried out and are shown in the following Table 1 and Table 2.

**Table 1** Normality Test Results

Variable	P	Description
Caregiver Burden	0.200	Normal
Parenting Self-Efficacy	0.001	Abnormal

**Table 2** Linearity Test Results

Variable	F	P	Description
Caregiver burden and parenting self-efficacy	36.7	0.000	Normal

Based on the results of the normality test carried out using the Kolmogorov-Smirnov technique, the data obtained from caregiver burden variable  $p = 0.2$  ( $p > 0.05$ ) and parenting self-efficacy variable  $p = 0.001$  ( $p > 0.05$ ) are normally and abnormally distributed,

respectively. Meanwhile, in accordance with the results of the linearity test, it was discovered that the relationship between caregiver burden and parenting self-efficacy was linear  $p = 0.000$  ( $p < 0.05$ ).

Furthermore, the hypothesis test was carried out using a non-parametric Spearman Rho technique, and the results are shown in Table 3, and the variable aspect shown in Table 4.

The test results show that the correlation coefficient between caregiver burden and parenting self-efficacy in

the sandwich generation is  $r = -0.469$  and  $p = 0.000$  ( $p < 0.05$ ).

An additional analysis in a correlation test was carried out on parenting self-efficacy and caregiver burden, based on marital status, work type, and total income. The additional analysis test results are shown in Table 5, Table 6 and Table 7.

**Table 3** Hypothesis Test Results

Variable	r	r <sup>2</sup>	P	Description
Caregiver burden and parenting self-efficacy	-0.469	0.242	0.000	Significant

**Table 4** Variable Aspect Intercorrelation Test Results

No	Aspect	Satisfaction	Efficacy	Caregiver Burden
1.	Satisfaction	r	1	-0.541
		p	0.828	0.000
2.	Efficacy	r	1	-0.469
		p	0.828	0.000
3.	Caregiver burden	r	-0.541	1
		p	0.000	0.000

**Table 5** Caregiver Burden Difference Test Results Viewed from Marital Status

Category	Marital Status	
	Sig. (P)	Mean
Married	0.154	56.96
Widow (divorced/died)		42.50

**Table 6** Caregiver Burden Difference Test Results in terms of work type

Category	Work type	
	Sig. (P)	Mean
Public/private/office employees	0.030	56.50
Entrepreneur		34.10
Housewife		56.91

**Table 7** Caregiver Burden Expenses Difference Test Results in terms of Total Income

Category	Total Income	
	Sig. (P)	Mean
1.000.000 to 2.000.000	0.024	62.03
3.000.000 to 4.000.000		58.30
>4.000.000		43.61

### 3.1. Discussion

This research aims to determine whether there is a negative relationship between caregiver burden and parenting self-efficacy in sandwich generation women. Meanwhile, 110 female respondents aged between 30 to 50 years and living with their children and parents or in-laws participated in this research. The proposed hypothesis stated a negative relationship between caregiver burden and parenting self-efficacy in the sandwich generation.

The test results show that the correlation coefficient value between caregiver burden and parenting self-efficacy in the sandwich generation is  $r = -0.469$  and  $p = 0.000$  ( $p < 0.05$ ). This shows that a significant negative relationship exists between both variables. These results indicate that the higher the level of individual parenting self-efficacy, the lower the caregiver burden experienced,

and vice versa. The correlation test results are consistent with preliminary research [23], that parental efficacy has a significant negative relationship with caregiver burden experienced ( $r = -0.42$ ;  $p < 0.001$ ).

Based on the correlation test, the aspect of satisfaction shows  $r = -0.541$  and  $p = 0.000$  and tends towards caregiver burden. This indicates that there is a significant negative relationship between these 2 attributes. These results also imply that the higher the level of individual satisfaction, the lower the caregiver burden experienced, and vice versa. This is consistent with preliminary research carried out by Lea Steadman et al. (2007), entitled Premorbid Relationship Satisfaction and Caregiver Burden in Dementia Caregivers. It stated that a significant negative relationship of  $r = -0.38$  and  $p = 0.001$  ( $p < 0.05$ ) existed between the 2 variables. Moreover, Hsiao and Tsai carried out another research that revealed a negative relationship between caregiver

burden and satisfaction in families that care for people with schizophrenia ( $r = 0.15$ ;  $p = 0.09$ ).

Meanwhile, the correlation test on aspects of efficacy and caregiver burden showed several  $r = -0.469$  and  $p = 0.000$ . Therefore, a significant negative relationship exists between aspects of efficacy and caregiver burden. This indicates that the higher the individual's level of efficacy, the lower the caregiver burden experienced, and vice versa. It is in line with research carried out by [22], entitled Level of Care Burden and Self-efficacy for Informal Caregiver of Patients with Cancer. It stated that a significant negative relationship equal to ( $r = 0.104$ ;  $P < 0.05$ ), existed between the 2 variables.

The analysis of the different caregiver burden tests shows that the marital status has a significance level of  $p = 0.154$  ( $p > 0.05$ ) was realized. These results indicate that caregiver burden scores of the 2 groups of respondents' marital statuses are similar. The average score of the highest caregiver burden realized in the sandwich generation group with married status is 56.96. Meanwhile, based on the test results in terms of work type, the significance level value is  $p = 0.03$  ( $p < 0.05$ ). These indicate differences in caregiver burden scores assigned to the 3 groups of respondents' occupations. The average score of the highest caregiver burden in the sandwich generation group that are housewives is 56.91. Based on the test results in terms of the total income, the significance level value is  $p = 0.024$  ( $p < 0.05$ ). These indicate that there are differences in caregiver burden scores assigned to the 3 groups of respondents' total income. The average score of the highest caregiver burden in the sandwich generation group with total income ranging from 1.000.000 to 2.000.000 is 62.03.

Several weaknesses were discovered during the process of data collection and interviews. The research carried out online made them unable to provide direct and appropriate responses or feedback and are less able to control the respondents while filling out the questionnaire. Subsequently, the distribution of questionnaires is not based on the demographic location of a region in Indonesia, therefore, its frequency is uneven and random. The use of a scale for independent variables sourced from old journals was also because the relationship between caregiver burden and parenting self-efficacy is rarely determined, and it is difficult to find appropriate library materials to be used as references.

#### 4. CONCLUSION

Based on the analyses carried out, it was concluded that there is a significant negative relationship between caregiver burden and parenting self-efficacy in the sandwich generation. This shows that the higher the level of parenting self-efficacy, the lower the caregiver burden experienced, and vice versa. Based on these results, the proposed hypothesis was accepted.

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