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# Effect of Mindfulness-Based Cognitive Therapy on Symptoms of Depression: A Systematic Review

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#### **ABSTRACT**

Depression is a common mental health disorder. The main symptoms of depression are a lack of interest in the activities of daily life and suicidal thoughts. Mindfulness-based cognitive therapy (MBCT) is effective in preventing or reducing symptoms of depression. This study aimed to determine the effectiveness of mindfulness-based cognitive therapy in reducing symptoms of depression. This systematic review was based on Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA). Five databases included in this study This systematic review uses 10 articles that fit the inclusion criteria outcome. The result showed mindfulness-based cognitive therapy intervention from the research was reviewed significantly and has been shown to be an effective psychological intervention for reducing depressive symptoms in various populations. Mindfulness-based cognitive therapy has better results for reducing depressive symptoms and has a positive impact on reducing mental health problems and can be used by nurses and other mental health practitioners.

**Keywords:** Depression; Mindfulness; Mindfulness-Based Cognitive Therapy

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#### **BACKGROUND**

Adolescent risk problems are unhealthy diet, physical activity, injury, use of firearms, premarital sexual behavior, abuse of Narcotics, Psychotropics, and other addictive substances (Drugs), depression, suicide, and aggressive behavior (Krisnana et al., 2019; Papalia & Feldman, 2008; Potter & Perry, 2005; Santrock, J.W., 2007). Depression appears in late childhood and early adolescence (United Nations Children's Fund (UNICEF), 2011). Depression in adolescents is not only a feeling of stress but is a serious condition, affecting behavior, emotions and thinking, and becomes a permanent condition. If the stress phase is not resolved immediately, it can be a depressive phase, and lead to severe behavioral disorders and substance abuse (Howard et al., 2009; Ktut Dianovinina, 2018). Early detection and preventive interventions need to be done before the onset of depression, especially in early adolescents aged 10 and 14 years (United Nations Children's Fund (UNICEF), 2011).

World Health Organization in 2017, estimates about 322 million people live with depression in the world and nearly half are in the western pacific region and southeast Asia (WHO, 2017). WHO has identified depression as the prior cause of mental health disability and is projected to rank second as a cause of disability in 2020 (Stuart, 2016). WHO states that depression also occurs in children and adolescents age under 15 years, while the percentage is still lower than older age. The estimated number of people with depression increased by 18.4% between 2005 and 2015 (Vos et al., 2017; WHO, 2017). The results of a survey by the Center for Disease Control (CDC) in America stated during 2009-2012, the incidence of depression in the 12-17-year-olds was 7.6% (Pratt, L.A., & Brody, D.J., 2014). Around 21.8% of people in Indonesia have moderate or severe depression, especially adolescents (Peltzer & Pengpid, 2018). Medical intervention is the treatment choice for children with mental health disorders. However, it is necessary to identify non-pharmacological approaches as an adjunct therapy and complementary therapies were popular therapy for children and adolescents (Goldman et al., 2008). Mindfulness is one of the complementary therapies for mental health disorders problems. It is a current awareness of one's experiences, combined with acceptance and nonjudgmental attitude (Bishop et al., 2004; Kabat-Zinn, J., 2013). Mindfulness can be easy treatment as a specific form of meditation that seeks to improve psychological functioning through synergistic efforts between attention regulation, self-awareness, and emotional regulation, thereby increasing psychological resilience and self-regulation (Tang et al., 2015). Mindfulness-based cognitive therapy (MBCT) is a psychosocial group-based intervention consisting of training in mindfulness meditation and elements of cognitivebehavioral therapy (CBT).

The previous finding related to Mindfulness-Based Intervention (MBI) and mental health in adults has experienced the expansion of mindfulness interventions in adolescents (Weare & Nind, 2011). Fung et al. in 2019 state that mindfulness interventions are beneficial for adolescents in reducing perceived stress, internalizing problems, and reducing mental health symptoms through improved emotional regulation (Fung et al., 2019). Therefore, this study aimed to examine changes in depressive symptoms for adolescents receiving mindfulness-based cognitive therapy and to further investigate whether there was the effectiveness of mindfulness-based cognitive therapy in reducing depressive symptoms.

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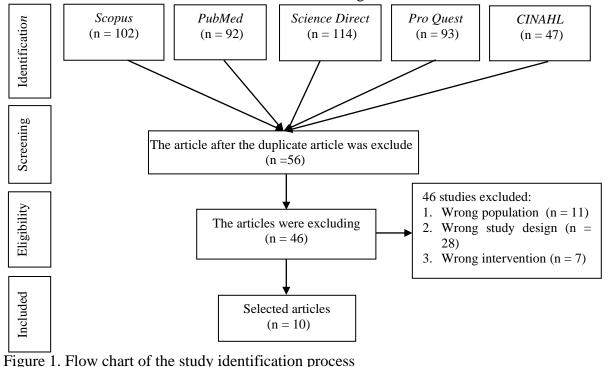
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#### **METHODS**

This Systematic Review used elements related to Preferred Reporting Items for Systematic Reviews and Meta-Analyzes (PRISMA) statements. Five databases were used including Scopus, Pubmed, Science Direct, Pro-Quest, and CINAHL with articles published from 2015 to 2020. Only full text and English articles were included in this study. The keywords used in the search for the article were "depression" AND "mindfulness" AND "mindfulness-based cognitive therapy". After several articles were found, the authors conducted an analysis and synthesis of the articles according to the specified inclusion and exclusion criteria. The inclusion criteria in this systematic review were (1) research discusses the effect of mindfulness-based cognitive therapy on depression (2) original research, and (3) the use of adolescent and adult research subjects. The exclusion criteria in this systematic review were (1) the results of the study did not explain the effect of mindfulness-based cognitive therapy on depression (2) the research from a thesis, dissertation, abstract, or part of a conference. The article search process was carried out in May-June 2020. The article search used keywords that had been determined by the compilers and provided limits on inclusion and exclusion criteria. The data collected and selected one by one by the compiler to determine the suitability of the desired articles and delete the duplicate articles. After obtaining the appropriate articles, the articles were analyzed one by one and grouped to get the results. The next step was to discuss based on the points obtained from the selection results.

#### **RESULT**

The initial literature search obtained 448 articles (102 from Scopus, 92 from PubMed, 114 from Science Direct, 93 from ProQuest, and 47 from CINAHL). After reviewing the abstracts for relevance and matching the inclusion criteria, 56 articles were selected for the full-text review. There were 46 full-text articles excluded for reasons not related to mindfulness-based cognitive therapy in reducing depressive symptoms. Finally, there were 10 articles selected for review, as listed in figure 1.



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The analysis of the 10 articles was presented in table 1. Table 1. Mindfulness-Based Cognitive Therapy for Depression Symptoms

Table 1. Mindfulness-Based Cognitive Therapy for Depression Symptoms		
Research Title	Research methods	Result
Effectiveness of	<b>Design</b> : Experimental study	The results showed that
mindfulness-based	Sample: 30 participants	mindfulness-based cognitive
cognitive behavior therapy		therapy intervention was an
	based cognitive therapy, life	* •
		improve the psychological
	family functioning,	
•	depression, suicidal behavior	
2019)	Instrument:	thoughts.
,	The Modified Scale for	
	Suicidal Ideation (MSSI)	
	Beck's Depression Inventory	
	(BDI)	
	Satisfaction with Life Scale	
	Revised Life Orientation Test	
	(LOT-R)	
	Analysis: Analysis of	
	variance (ANOVA)	
Effect of a Mindfulness-	<b>Design</b> : Experimental study	This study showed that
Based Intervention	Sample: 81 participants	mindfulness-based cognitive
Program on	Variables: Mindfulness,	therapy intervention can
Comprehensive Mental	Mental Health Problems	provide a significant reduction
Health Problems of	<b>Instrument</b> :	in somatization scores,
Chinese Undergraduates	The Symptoms Check List 90	obsessive-compulsive
(Liu, 2019)	(SCL 90)	symptoms, interpersonal
	The SCL90 was composed of	sensitivity, depression,
	90 items and nine	anxiety, hatred, anxiety
		phobia, paranoia, and
	Somatization, Depression,	psychoticism.
	Obsessive-Compulsive,	
	Interpersonal Sensitivity,	
	Hostility, Anxiety, Paranoid	
	Ideation, Phobic Anxiety, and	
	Psychoticism	
	<b>Analysis</b> : Analysis of	
	variance (ANOVA)	
Mindfulness-Based	<b>Design</b> : Randomized control	9
	trial (RCT)	therapy can reduce
	Sample: 77 participants	susceptibility to depressive
	Variables:	symptoms and suicidal
	Mindfulness-based cognitive	thoughts.
<u> </u>	therapy, depressive	
patients with a history of	* =	
-	cognitions	
(Barnhofer et al., 2015)	Instrument:	

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Research Title	Research methods	Result
	Beck Depression Inventory-II (Beck, Steer, & Brown, 1996) Suicidal thinking, as assessed through the Suicidal Cognitions Scale (Rudd et al., 2001).  Analysis: ANOVA	
Mindfulness-Based Cognitive Therapy (MBCT) Are Both Effective: a Pilot Randomized Controlled Trial in Depressed People	Design: Randomized control trial (RCT) Sample: 56 participants Variables: Mindfulness-based cognitive therapy, depressed people Instrument: Beck Depression Inventory-II (BDI-II) General Anxiety Disorder 7 (GAD-7) Well-Being Index (WHO-5) Five Facet Mindfulness Questionnaire (FFMQ) Self-Compassion Scale Analysis: T-tests, chi-squared tests, fisher's exact test	mindfulness-based cognitive therapy both as a group and individually can improve
	based cognitive therapy,	Depressive symptoms decreased significantly after giving mindfulness-based cognitive therapy intervention.

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Research Title	Research methods	Result
	(ANCOVA)	
Controlled Trial of a Mindfulness Program for	Design: Randomized control	of depression and it was necessary to adjust its implementation and delivery so that it was meaningful and
	Analysis: an intention-to-	
	treat (ITT) analysis	
Based Cognitive Therapy to Reduce Psychological	Sample: 42 participants Variables: Mindfulness- Based Cognitive Therapy, Psychological Distress Instrument: Epidemiological Studies—	
psycho-education for patients with major depression who did not	based cognitive therapy, psycho-education, major depression.  Instrument: Hamilton	advantages of mindfulness-based cognitive therapy over psychoeducation for major depression and this finding could be attributed to the provision of mindfulness-based cognitive therapy specifically and in groups to reduce symptoms of

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Research Title	Research methods	Result
	(BDI-II)	
	Beck Anxiety Inventory	
	(BAI)	
	Five Facet Mindfulness	
	Questionnaire	
	Analysis: t-tests, chi-square	
	(x <sup>2</sup> ) tests, ANOVA	
The effects of mindfulness-	Design: Randomized control	The findings from this study
based cognitive therapy on	trial (RCT)	contribute to the evidence that
risk and protective factors	Sample: 68 respondents	mindfulness-based cognitive
	Variables: MBCT, risk and	therapy can lead to reduced
randomized wait-list	protective factors for	risk factors for depressive
controlled trial (Schanche	-	recurrence, and strengthening
et al., 2020)	<b>Instrument:</b> Rumination-	factors known to protect
	<u>=</u>	against depressive recurrence.
		The biggest change was found
	emotion regulation scale	
		relatedness, in the form of a
		large influence on the ability
		to judge oneself and love
		oneself more.
	questionnaire (FFMQ), Beck	
	depression inventory II (BDI-	
	II), he Beck anxiety	
	inventory (BAI)	
	Analysis: analyses of	
TII Dec .:	covariance (ANCOVA)	T d 1 d 101
	0	In this study, the mindfulness-
Mindfulness-Based	trial (RCT)	based cognitive therapy
	Sample: 1.554 respondents	
•		significant reduction in
Healthcare Services		residual symptoms and was
(Tickell et al., 2020)	Questionnaire for Depression	consistent with a reduced risk
	(PHQ-9)	of depression recurrence.
	Analysis: T-test and	
	ANOVA	
	1110 111	

## **DISCUSSION**

Depression is a common mental health condition and one of the most worrying phenomena that occur worldwide (Raj et al., 2019). Depression affects cognitive processes (Kircanski et al., 2012), emotional process (Visted et al., 2018), and self-attachment (MacBeth & Gumley, 2012) by increasing the recurrence risk of depression. Individuals who were depressed increase susceptible to negative thinking or difficulty regulating emotions (Segal et al., 2006). Depressed individuals were reported to have higher levels of self-criticism and lower self-acceptance (Ehret et al., 2015). Several therapies have been

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developed to strengthen a person's coping process, and one of the therapies is a cognitive-behavioral therapy approach that has provided evidence of effectiveness. Thus, research was consistently needed to improve emotional health and well-being, as well as encourage the use of adaptive coping skills to reduce the use of maladaptive coping skills (Raj et al., 2019).

Mindfulness is a complementary therapy that is described as current awareness of one's experiences, combined with acceptance and non-judgmental attitude (Bishop et al., 2004; Kabat-Zinn, J., 2013). Mindfulness can be understood as a specific form of meditation that seeks to improve psychological functioning through synergistic efforts between attention regulation, self-awareness, and emotional regulation, thereby increasing psychological resilience and self-regulation (Tang et al., 2015). In this review, the results suggested that MBCT contributes to lowering risk factors for depressive recurrence and strengthening factors that were known to protect depression recurrence. The biggest change was found in the domain of self-connection, in the form of a large influence on the ability to judge yourself and love yourself more. (Schanche et al., 2020).

Mindfulness-based cognitive therapy intervention also serves as an effective medium to improve the psychological function of depressed adolescents with suicidal thoughts (Raj et al., 2019). This study in line with the previous study showed that Mindfulness-based cognitive therapy can help weaken the link between depressive symptoms and suicidal thoughts and reduce susceptibility to depression and suicide (Barnhofer et al., 2015). Two previous studies found that mindfulness-based cognitive therapy interventions showed a significant reduction in residual symptoms, consistent with reducing the risk of depression recurrence, psychological distress especially depression and anxiety, and strengthened selfesteem, resilience, and general well-being for an individual's life (McCay et al., 2016; Tickell et al., 2020). Other studies have shown that mindfulness-based cognitive therapy both as a group and individually can improve psychological well-being, attention skills, and reduce symptoms of depression (Alampay et al., 2020; Schroevers et al., 2016). The studies that have been described in this review showed the strategies to reduce depressive symptoms can be done with mindfulness-based cognitive therapy interventions. Although several studies did nor showed significant values on all measured parameters, but most of the studies stated the positive effect of mindfulness-based cognitive therapy on symptoms of depression.

#### CONCLUSION

Mindfulness-based cognitive therapy intervention was a psychological intervention that makes a significant contribution to reducing symptoms of depression or anxiety. Nursing intervention should be facilitated by nurses or health workers who are familiar with the intervention and its management. It is necessary to research with a similar theme and modification of the variables as possible as recommended.

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