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BENEFITS OF AUTOGENIC TRAINING THERAPY FOR TEENAGERS: A SYSTEMATIC REVIEW

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Abstract

Introduction: Autogenic Training (AT) is a relaxation technique which is a structured process of automatic suggestion like self-hypnosis. This activity can be used to reduce several complaints, both physical and psychological. The purpose of writing this article is to find out the benefits of autogenic training in teenagers. Method: Systematic review of articles from nine databases, namely ClinicalKey, EBSCOhost, EMBASE, ProQuest, ScienceDirect, Scopus, Oxford Journals, Pubmed and Google Scholar . Article searches were carried out using the keywords Autogenic Training, Autogenic Relaxation, Child, Adolescent and were limited to the years 1992-2022. Results: From the results of the data base search, 8,105 articles were identified, of which there were 10 articles that were relevant for systematic review. Autogenic training is able to reduce pain in adolescents, especially in cases of migraines, other headaches and dysmenorrhea. In addition, this intervention can be used to reduce behavioral and emotional disorders such as anxiety and stress. Autogenic training can also be used to control self-control or self-regulation. Conclusion: Autogenic training provides many benefits for teenagers, such as reducing pain, anxiety and stress responses, increasing attention, increasing the ability to control emotional regulation or self-control and maintaining a good mood.

Keywords: Children, Autogenic Training, Autogenic Relaxation, Teenagers

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INTRODUCTION

Autogenic training is a relaxation technique self-suggestion. utilizes This that suggestion is generated from within a person and is carried out every day to produce positive energy or calm (Kanji, 2000). Autogenic Training was developed by Dr Johannes Heinrich Schultz in the 1920s, where he was a neurologist and psychiatrist from Germany. Schultz (1959) explained that autogenic training developed from Oskar Vogt's research on sleep and hypnosis, where Vogt concluded that patients who underwent hypnosis under his guidance were able to place themselves, for self-determined periods, into a state similar to a hypnotic state or called " autohypnotic ". This condition has a tremendous healing effect in reducing stress. From here, Schultz began to develop therapeutic hypnosis in the form of suggestions to reduce patient passivity and patient dependence on the therapist. Schultz developed a therapeutic method using a series of stages of suggestion to transmit sympathetic to parasympathetic nerves by relaxing the body's muscles which are then used to control the body's muscles, circulatory system, breathing and stomach. Six formulas were developed in autogenic training which are physiologically oriented as training standards. At the beginning of the training the patient will be invited to enter a condition where the limbs are heavy, feeling warm in the limbs, concentrating on heartbeat and breathing, followed by thinking about the feeling of warmth in the stomach area and on the forehead (Schultz & Luthe 1959).

Autogenic training is an alternative intervention It has been widely used for

various conditions, both physical and psychological. In a meta-analysis study, autogenic training is a relaxation technique that is effective in reducing pain (Kohlert et al., 2022), in the literature review it is also explained that autogenic training is an interventional psychotherapy technique that is quite promising in treating mental disorders (Breznoscakova et al., 2023). Autogenic training has an effect on autonomic cardiorespiration which is paralleled by modification of psychological activities which is consistently able to reduce anxiety and have a positive impact on mild-moderate depressive disorders, bipolar disorders, psychotic disorders and acute stress.

In adolescents, autogenic training has been believed to be able to overcome emotional problems and behavioral problems (Klott, 2013). Teenagers have good imagination, therefore it is very easy to change unpleasant situations into pleasant ones. For adolescents with emotional problems, autogenic training is a process of selfreflection in increasing self-awareness which can help increase adolescent independence. Various studies on the effectiveness of autogenic training in adolescents are still very limited. Therefore, this systematic review aims to analyze the benefits autogenic training of in adolescents.

RESEARCH METHODS

The method used in this study is a literature review which begins by determining PICO (Population, Intervention, Comparison and Outcome). The population determined is teenagers,

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the intervention determined is Autogenic Training. In this study, the intervention was not compared with other interventions and all outcomes will be looked at to make the literature search richer. A literature search was carried out systematically databases. namelv through eight EBSCOhost. ClinicalKey, EMBASE. ProQuest, Science Direct, Scopus, Oxford Journals, Pubmed and Google Scholar using the keywords Autogenic Training, Autogenic Relaxation. Child. and Adolescent. The search for articles was limited according to predetermined inclusion and exclusion criteria. The inclusion criteria in this article are: English language research articles. research conducted on adolescents with publication years ranging from 1992-2022. The exclusion criteria used are articles that cannot be accessed in full text and research articles.

From the database, 8,105 articles were found which were then limited according to the inclusion and exclusion criteria, then the articles were assessed for relevance based on the title and abstract. The next stage, the researcher read all 14 articles. There were 4 duplicate articles, so the total number of articles analyzed was 10 articles. All articles that were obtained were then reviewed using *the Joanna Briggs Institute* (JBI) *critical appraisal tools*. All articles were declared good so they could be included in this systematic review.

RESULT

The results of the study regarding the benefits of autogenic training in adolescents can be seen in table 1.

N	Autho	Article	Objec	Meth	Sampl	Result
o 1	r/Year Elise E. Labbe 1995 Alaba ma	Title Treatm ent of Childh ood Migrai ne with Autoge nic Trainin g and Skin Tempe rature Biofee dback: A Compo nent Analys is	tive Assess ing the potenti al of skin temper ature biofee dback compo nents in the treatm ent of migrai ne in adoles cents	od RCT	e 30 teenag ers (7- 18 years) Divided into 3 groups (skin tempera ture biofeed back with autogen ic relaxati on, autogen ic relaxati on, and control)	s Skin temper ature biofee dback therap y with autoge nic relaxat ion or autoge nic relaxat ion or autoge nic relaxat ion or autoge sthe freque ncy and duratio n of migrai nes. Heada che intensi ty did not decrea se signifi
2	Joyce M. Engel, Ph.D., Micha el A. Rapoff , Ph.D. and Alice Rogot Press man, MS 1992 Kansa s	Long- term Follow -up of Relaxat ion Trainin g for Pediatr ic Headac he Disord ers	Assess ing the long- term effects of relaxat ion trainin g in adoles cents with headac he disord ers	Quasi Experi ment	17 teenag ers Divide d into 3 groups (Autog enic relaxat ion, progre ssive relaxat ion, autoge nic + progre ssive relaxat ion, progre ssive relaxat ion,	Relaxa tion exercis es are effecti ve for long- term treatm ent (frequ ency and severit y) of migrai ne, tensio n and mixed headac

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					and control)	hes in adoles cence. produc es other benefit s such as stress manag ement, sleep inducti on and increas ed exercis e capacit	5	Shin Youjin , Kim Sungja e 2022 Korea	Emotio nal Proble ms The Effects of Autogeni c Training on Stress Respons e, Self- control and Internet	attention deficit disorder s Exami ning the effect of using autoge nic trainin g as an interve ntion motho	Quasi Experi ment	46 teenag ers Divide d into 3 groups (24 experi mental , 22 control	d behavi oral and emotio nal sympt oms Autog enic trainin g is an effecti ve interve ntion metho d to reduce stress
3	Dina Fithria na, Eva Marvi a, Ageng Abdi Putra 2016 Indone sia	Compari son of Providin g Autogeni c Relaxati on Therapy and Aromath erapy on Reducin	Analy zing the compa rison of provid ing aromat herapy and autoge nic	pre- experi menta l pre- post test	Sampl e 30 (12-15 years)	y Autog enic relaxat ion therap y has a strong er effect on reduci ng menstr			Adultito n of Adolesce nt Internet Addictio n Risk Group	d on adoles cents at risk of interne t addicti on)	ses, increas e self- control , and reduce the level of interne t addicti on
		g the Level of Menstru al Pain (Dysmen orrhea)	relaxat ion therap y to reduce the level of menstr ual pain			ual pain when compa red to provid ing aromat herapy to adoles cents	6	Tracey Atkins & Ben Hayes 2019 Englis h	Evaluati ng the impact of an Autogeni c Training relaxatio n intervent ion on levels of	Looki ng at the impact of group- based Autog enic Traini ng relaxat	mixed metho ds	Quanti tative: 66 teenag ers (14-15 years old) Divide d into 2 groups	The Autog enic Traini ng relaxat ion interve ntion signifi cantly reduce
4	Lutz Goldb eck and Kathar ina Schmi d 2003 Germa n	Effecti veness of Autoge nic Relaxat ion Trainin g on Childre n and	To determi ne the effective ness of autogeni c relaxatio n training in	RCT	50 childre n (6-15 years)	Autog enic relaxat ion trainin g had no effect on somati c			anxiety among adolesce nts in school.	ion interve ntions on adoles cent anxiet y levels at school		(interv ention and control) Qualit ative: 12 teenag ers	d anxiet y levels among adoles cents
		Adoles cents with Behavi oral and	adolesce nts with aggressi ve, impulsiv e or			compl aints, but signifi cantly reduce	7	Endan g Lestia wati, Anita Liliana	Progres sive and Autoge nic Muscle	To determ ine the effecti veness	quasi experi ment	51 teenag ers Divide d into 3	Progre ssive muscle relaxat ion and

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	2019 Indone sia	Relaxat ion to Reduce Adoles cent Stress at SMKN 1 Depok Sleman Yogya karta	of progre ssive and autoge nic muscle relaxat ion trainin g on stress in adoles		groups (17 progre ssive muscle relaxat ion, 17 autoge nic relaxat ion, 17 control)	autoge nic relaxat ion are effecti ve in reduci ng stress scores in adoles cents
8	Yulia Fitrian i, Asmad i Alsa 2016 Indone sia	Autoge nic Relaxat ion to Improv e Emotio n Regula tion in Middle School Student s	cents Empiri cally testing the effect of relaxat ion trainin g autoge nic to increas ed emotio nal regulat ion	quasi experi ment	35 studen ts Divide d into 2 groups (16 interve ntion and 19 control)	Autog enic relaxat ion can signifi cantly impro ve emotio nal regulat ion in junior high school studen ts
9	Hairul Anuar Hashi m, Hazwa ni Hanafi , and Ahma d Yusof 2011 Malay sia	The Effects of Progres sive Muscle Relaxat ion and Autoge nic Relaxat ion on Young Soccer Players ' Mood States	Compari ng the effects of progress ive muscle relaxatio n and autogeni c relaxatio n techniqu es on the mood of young soccer players	RCT	16 teenag ers (Age 13-15 years)	Both techni ques signifi cantly reduce confus ion, depres sion, fatigue and tensio n
1 0	Juan M. Guiote , Vanes sa Lozan o, Migue l	Autogeni c meditati on training in a randomi zed controlle d trial: A	players Testing the effective ness of autogeni c meditati on training as a	RCT	70 teenag ers (Mage =9.77) Divide d into 3 groups (Autog	Autog enic medita tion trainin g is an effecti ve metho d in

Ángel	framewo	strategy	enic	increas
Vallej	rk for	for	medita	ing
oa,	promotin	increasi	tion	attenti
and	g mental	ng	trainin	on,
Blanca	health	attention	g,	reduci
Mas	and	,	nature	ng
2022	attention	reducing	readin	anxiet
Spanis	regulatio	anxiety	g	y, and
h	n in	and	trainin	promo
	children	promoti	g and	ting
		ng	control	better
		mental	group)	mental
		health		health
				in
				adoles
				cents

Table 1. Summary of literature review results.

The results of a search for database articles from 1992-2022 yielded 10 articles, namely one article from Embase, one article from Sciencedirect, two articles from Scopus, one from Pubmed, three from Google Scholar, and two articles from hand searching. Based on the year of publication, the last or most recent article is the article from Guiote et al. in 2022 while the oldest article is the article from Engel et al. in 1992. The articles that have been collected currently have almost the same research design, namely experiments and most of them are RCTs. From the entire article, a total sample of 411 teenagers with an age range of 6-18 years was obtained, divided into several intervention groups and control groups (without intervention). The interventions carried out included nine articles about autogenic training (Engel et al., 1992; Labbe, 1995; Goldbeck & Schmid, 1994; Fitriani & Alsa, 2015; Fithriana et al., 2016; Atkins & Hayes, 2019; Lestiawati & Liliana, 2019; Sungjae & Youjin, 2020; Hashim et al., 2011), one article on autogenic meditation training (Guiote et al), one article on the combination of skin

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temperature biofeedback and autogenic training (Labbe, 1995), one article on progressive relaxation (Engel et al. al., 1992), one reading training article (Guiote et al., 2022), two progressive muscle relaxation articles (Lestiawati & Liliana, 2019: Hashim et al., 2011), and one aromatherapy article (Fithriana et al., 2016). In accordance with the aim of the systematic review, this article will focus providing autogenic on training interventions. The results of the study show that autogenic training can be applied to teenagers who are physically and psychologically ill. Three studies (Labbe, 1995; Engel et al., 1992; Fithriana et al., 2016) stated that autogenic training can be applied to adolescents with pain, such as migraines, other headaches and dysmenorrhea. In migraine conditions, it is stated that this therapy does not significantly reduce the intensity but is significant in reducing the frequency and duration of migraines. In the condition of dysmenorrhea, autogenic training is said to be able to reduce the level of pain from moderate pain to mild pain.Psychological problems. especially emotional and behavioral disorders in adolescents, can include aggression, impulsivity, attention deficit, anxiety, tension, stress and depression. Goldbeck & Schmid, (1994) stated that providing autogenic training therapy to adolescents can reduce behavioral and emotional symptoms. Other benefits that can be felt are being able to increase attention (Guiote et al., 2022), reduce anxiety (Guiote et al., 2022; Atkins & Hayes, 2019), and reduce stress levels (Sungjae & Youjin, 2020; Lestiawati & Liliana, 2019).

Based on the 8 trials that have been carried out in this research, it can be concluded that in segmentation for pattern identification using texture analysis and shape analysis, the results of leaf identification using the K-Means clustering method can be carried out from 8 trials without any identification errors.

Meanwhile, the aim of improving mental health can be exemplified bv the application of autogenic training to young soccer players so that they are always in a good mood so they can compete well (Hashim et al., 2011). Apart from that, this therapy is also felt to be able to improve emotional regulation in adolescents (Fitriani & Alsa, 2015), increase selfcontrol abilities (Sungjae & Youjin, 2020), and as a medium for promoting better mental health (Guiote et al., 2022).

Autogenic training according to Nursing Interventions Classification (2018) is an alternative therapy to help clients by giving self-suggestions about feelings of heaviness and warmth with the aim of encouraging relaxation. Relaxation is a condition of the body in a calm state resulting from a conscious state. Various relaxation techniques are believed to be reduce pain. however the able to effectiveness of autogenic training for controlling pain is inconsistent (Cooney & Colwell, 2021). Labbe's (1995) study in Alabama reported that in adolescents with migraines this therapy did not significantly reduce the intensity of pain, but could reduce the frequency and duration.

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Reducing psychological problems in teenagers cannot be separated from the aim of autogenic training . The Centers for Disease Control and Prevention states that many teenagers have fears and worries that develop over time for many reasons, where these fears and worries form conditions of anxiety and depression (CDC, 2022). As many as 9.4% of children or around 5.8 million children aged 3-17 years have received a diagnosis of anxiety. Several literatures show the use of stress management techniques in children and adults that can be used to reduce stress and anxiety. Engel et al. (1992) said that in their study on the long-term effectiveness of autogenic training in adolescents with headaches, not only did the frequency and severity of headaches decrease, but with autogenic training adolescents were able to experience other benefits such as stress management. Kanji & Ernst (2000) in a systematic review study on stress and anxiety in general were unable to provide firm conclusions about autogenic training, this was due to a flaw in the testing method. In contrast to research by Atkins & Hayes (2019) which was conducted on teenagers at school, the results of the study that the autogenic stated training intervention was able to significantly reduce teenagers' anxiety levels. This is supported by research by Guiote et al. (2022)where autogenic meditation training was able to reduce anxiety levels adolescents. in Another benefit of autogenic training in adolescents is to reduce behavioral and emotional symptoms including increasing attention (Guiote et al., 2022). In the process of autogenic training, sustained attention to body parts can lead to concentration, so

this supports the notion that autogenic training supports concentration (Kanji, 2000). Increased attention is also related to the activity of self-regulation processes that are formed from autogenic states into better attitudes. Other research states that carrying out autogenic training can make teenagers develop inner relaxation and over negative responses. self-control Adolescents with low self-defense and high levels of stress tend to have nonadaptive coping (Agustini et al, 2019). For example, stressful conditions in school teenagers result in teenagers looking for ways to eliminate or avoid stress by surfing the internet, which ultimately results in a condition of addiction. From this condition, teenagers are basically invited to manage their stress response so that it does not have an impact on negative things such as internet addiction (Sungiae & Youjin, 2020).

In line with research by Fitriani & Alsa (2015) where autogenic training was able regulation increase emotional to in students by 34.9%. Emotional regulation is a person's ability to express one's emotions in the form of good and bad behavior and feelings. The ability to manage emotions in adolescents is still unstable, many factors influence both internal and external. With autogenic training, it is hoped that teenagers will be able to be more relaxed in controlling their emotions and behavior and can build their own strength so that they are not influenced by external factors (Klott, 2013).

Autogenic training also has a role in promoting mental health, namely acting as a barrier to the occurrence of

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psychopathology (Guiote et al., 2022). We know that autogenic training has a role in dealing with teenagers with behavioral and emotional problems (Goldbeck & Schmid, 1994), therefore prevention programs using this technique are considered good enough to be implemented. This is also supported by research by Hashim et al., (2011) where autogenic training was able to improve the mood of young soccer players.

CONCLUSION

From this study it can be concluded that autogenic training provides many benefits for teenagers, both healthy and sick, namely: reducing the frequency and duration of migraines or other headaches, reducing pain, reducing anxiety or tension, reducing stress responses, increasing attention, increasing ability. controlling emotional regulation or self-control, maintaining a good mood, and as a medium for promoting mental health

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