severe psychological symptoms.

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Land and a standard an	PSY	JRVEY ON THE FREQUENCY AND SEVERITY OF CHOLOGICAL SYMPTOMS OF MENOPAUSAL MEN IN KERALA.	KEY WORDS: menopause , anxiety , depression , psychological symptoms	
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STRACT a o b d	ermanent cessation of egrade her quality of li f the menopausal wo nood, irritability, anxie	of female reproductive life, just as puberty. World Health Organiza i menstruation Menopause brings psychological and biological cha fe. The present survey study was done in 250 subjects, were aimed men as mentioned in the Menopausal rating scale (MRS). Psychol ty and physical and mental exhaustion. It is observed that anxie scoring method the severity of psychological symptoms is assessed	anges that effect women's health and to assess the psychological symptoms ogical symptoms includes -depressive ty is the most frequent psychological	

INTRODUCTION

The physiological state of the human body does not remains same throughout the life. Different changes occurs in the body as a part of aging process. Menopause brings psychological and biological changes that effect women's health and degrade her quality of life. According to World Health Organisation [WHO] in the year 1990 there were 467 million women aged 50 years and above globally. (40 % of them lived in the developed countries, whereas 60 % were in the developing countries). The global figure is expected to hit 1200 million by the year 2030. Significantly, as the proportion of postmenopausal women living in the developed region is expected to decline by over 16%, it in turn causes an alarming situation for the developing countries. This read along with the statistical data put forward by IMS (Indian menopause society) research, that there are about 65 million Indian women above the age of 45 makes the Indian scenario crucial by demanding utmost priority to menopausal health. The age at which natural menopause occurs is between 45 and 55 years for women worldwide with an average of 50 years, In India the menopausal age varies between 45 – 50 years, the average age being 48 years . Thus women had to spend almost 1/3 rd their life in the menopausal period and most of the women especially in developing countries are less aware of the menopausal symptoms that they are passing through.

Psychological symptoms include depression, irritability, anxiety, physical and mental exhaustion .Changes in mood during perimenopause in middle aged women may be related to endocrine changes, social factors, and the ageing process. Socially, women in midlife have to face many problems, including children leaving home, physical illness of either self or partners, marriage of daughters, caring for sick family member, and marital stresses relating to mid-life transition. Various socio-demographic variables such as educational level, occupational status, income and social network may influence the way in which women adapt to the many changes occurring in the menopausal years. Undesirable lifeevents were found to be worsen the severity menopause symptoms.Mood disturbances are reported by 75% of perimenopausal women and affect their quality of life. The study of Women's Health across the Nation (SWAN study) showed that the perimenopausal women reported more psychological symptoms than pre or post-menopausal women. Up to 30% of the women attending the gynaecology clinics with menopause is diagnosed to have a current depressive disorder. .Studies of mood variations during menopause have generally revealed an increased risk of depression during perimenopausal period, and a decrease in risk during the postmenopausal years. An Ovarian Aging cohort study, also found depressive symptoms to be increased during the menopausal transition and decreased after menopause A personal or family history of major depression, postpartum depression, or premenstrual disorder seem to be a major risk factor for depression in the perimenopausal period High stress and anxiety levels have

been reported to potentially worsen the somatic symptoms of menopause.certain researchers have found an increased incidence of depression in women who have undergone a surgical menopauseyoung women may be at greater risk for depression than older women following hysterectomy.

A study on neurobiological effects of hormones in 1994 found that oestrogen and testosterone were present in areas of the brain thought to be relevant to emotional functioning. Withdrawal of sex hormones at the menopause has been thought to influence neuropeptides and neurotransmitters, resulting in depression, irritability, insomnia and anxiety in women. Most of the hypothesis link oestrogen's with them development of depression during and after the menopause transition Estrogen might work like an antidepressant on neurotransmitters and their receptors.. Certain studies prove that symptoms of depression are significantly related to increased risk of CV events in women suspected of myocardial ischemia. The depression during menopause ranges in severity from minor depressive symptoms to more severe forms of major depressive disorder. Moreover, depressive disorders /symptoms and the associated brain changes have been related to mild cognitive impairment and probable dementia in postmenopausal women over 65years of age

AYURVEDICVIEW

The concept of psycho spiritual wellbeing has beenemphasised in the definition of health in Ayurveda classics. Ācāryā's had mentioned that prā a vāyu is responsible for the normal functioning of buddhi, indriya, hr daya Manas etc . When the prā a *vāyu* is disturbed or aggravated which in turn cause or manifest symptoms like anxiety, depression, mental confusion .Kama (desire), krodha (anger), bhaya (fear), śoka (sadness), irśyā (jealous), Udvega (anxiety) etc. are the Manovikaras (disorders of Manas) In nanatmaja vāta vikara Ācāryā has mentioned some of the psychological disorders like śrama, bhrama, glāni, vi ādā, anavasthitacittatā etc are mentioned . Ācāryā caraka while explaining vāta prak ti Lak a a according to guā, due to śīghragu ā they are quick in initiating actions, getting irritated easily, quick in affliction with fear, etc are mentioned. Ācāryā has mentioned for the management of mānasika vikāra's dhi, dhriti and ātmādi vijńāna plays a major role. And also the role of psychological support is mentioned.

MATERIALS AND METHODS

The present study was a survey study done in sakthikulangara Village ward no: 2 of kollam district in kerala., after getting approval from the institutional ethics committee of Amrita school of Ayurveda (prior to the start of work) as well as from the ward councillor. A total number of 250 subjects were fixed for the survey (with a 95% confidence limit, and 20% relative precision of estimate sample size was calculated as 180 subjects , but for a

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better outcome it was decided to be 250 subjects) who satisfy the following criteria.

Inclusion criteria

Women who had attained menopause either naturally or surgically between the age of 40-60

Exclusion criteria

- Malignancy
- Under hormone replacement therapy

The subjects who satisfy the inclusion and exclusion were selected from the sakthikulangara Village ward no 2 with the help of voters list and Asha workers are selected for the study. A pre-designed structured questionnaire consist of socio-demographic data, psychological symptoms that is mentioned in the menopausal rating scale [MRS], for assessing the psychological symptoms like depressive mood, irritability, anxiety and physical and mental exhaustion.

The survey was conducted by face to face interview method, after obtaining consent from the subject. The data was collected by keeping a target of 25 patients in a month. Data was collected from October 2015-November 2016.

Psychological symptoms of patients are observed using P-score (a) No, little – 0-1 (b) Mild- 2-3 (c) Moderate - 4-6 (d) Severe - 7+

The Software used is - SPSS version 20, the data obtained is presented as Frequencies, Percentage, Tables and Charts.

RESULTS

1) FREOUENCY OF THE PSYCHOLOGICAL SYMPTOMS AMOUNG THE SUBJECTS.

It was observed that out of the 4 psychological symptoms anxiety is the most frequent symptom about 82% of the subjects suffer from the symptom.

TABLE NO 1

SI	Symptoms	Frequency	Percentage
1	Depression	188	75.2%
2	Irritability	200	80%
3	anxiety	207	82%
4	Physical and mental exhaustion	173	69.2%

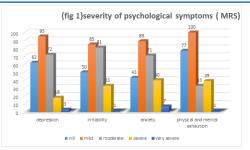
And its individual severity using MRS is accordingly

A)DEPRESSIVE MOOD- out of 250 subjects 38% of subjects have mild symptoms, 28% of subjects have moderate symptoms, 7.2% have severe symptoms, 1.2% have very severe symptoms and 24 % have no symptoms at all (fig 1)

B)IRRITABILITY- out of 250 subjects 34% of subjects have mild symptoms, 32.4% have moderate symptoms, 13.2% have severe symptoms, .4% have very severe symptoms and 20% of subjects have no symptoms at all . (fig 1)

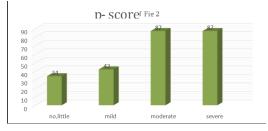
C)ANXIETY- out of 250 subjects 35.6% of subjects have mild symptoms, 28.4% of subjects have moderate symptoms, 16% of subjects have severe symptoms, 2.8% of subjects have very severe symptoms and 17.2% subject don't have any symptom of anxiety. (fig 1)

D)PHYSICAL AND MENTAL EXHAUTION- out of 250 subjects 40% of subjects have mild symptoms, 13.2% have moderate symptoms, 15.6% have severe symptoms, .4% have very severe symptoms and 30.8% of subjects had no symptoms.



2)SEVERITY OF PSYCHOLOGICAL SYMPTOMS OF THE 250 MENOPAUSAL SUBJECTS USING P- SCORE

On observing the psychological symptoms of patients (4,5,6&7th symptom in MRS) it is observed that 87% of patients have moderate and severe symptoms , 42% of subjects have mild symptoms, 34% of subjects have no or little symptoms



DISCUSSION

The psychological symptoms like anxiety (82.4%), irritability (80%) & depression (75.2%), which is much higher than any other studies conducted in India, especially those outside Kerala. But various menopausal studies in Kerala shows a higher percentage of psychological symptoms that is to precise, a study conducted in Kannur district projects the persistence of psychological symptoms to be 90.7%, where as another one in Idduki reported about psychological symptoms like irritability and anxiety to be centring around 85.8% and 73.8% respectively. This may be attributed to the concern with regards to their children, feeling of insecurity & social issues. One of the noticeable observation is that, the psychological symptoms in different studies done in Kerala is much higher in comparison to those in other states.

REGARDING SEVERITY OF THE PSYCHOLOGICAL SYMPTOMS

It is observed that 34.8% of subjects had moderate and 35% of subjects had severe symptoms and only 13% of subjects had no symptoms it may be because of the hormonal variation along with the social as well as the economic factors which may also contribute as 37% of subjects are poor and 44% are living in an average financial situation and this financial insecurity along with family issues , health of husband and kids, marriage of daughters , financial burden all contribute to the psychological status of the women.

In nanatmaja vāta vyādhi Ācāryā had mentioned viādā as a psychological symptom due to the predominance of vāta. jarā avastha is a stage where vata is in v ddhā avastha hence it may also contribute to the psychological disturbance in this phase along with other vata vikāra's.

CONCLUSION

Among the psychological symptoms anxiety is the most frequent symptom. Considering the severity most of the subjects had moderate to severe symptoms. This data itself shows the alarming situation of the psychological health of menopausal women in Kerala.

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