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Frequency of Predisposing Factors and First Choice of Treatment for Headache

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ABSTRACT

Background: Headache being one of the most common disorder worldwide is considered among the 10 most disabling conditions for men and women according to World Health Organization(WHO). When it comes to the causative factors that can cause headaches and why some group of patients are more prone towards developing these headaches, we have identified several risk factors. Also there are several self-adopted remedial treatments used by the people for headaches as it is considered a secondary condition.

Objective: To find out the frequency of predisposing factors and first choice of treatment for headache.

Methodology: Descriptive cross sectional study was conducted from June-November 2014. A sample of 500 participants was conscripted through purposite non-probability sampling technique. The particulars of predisposing factors and first choice of treatment were documented through a self-structured questionnaire and data was analyzed through SPSS 21.

Results: Study illustrates that most of the participants belonged to age group 21 to 40 years that is 62.6%. The pain severity was recorded (46%), (43%) and (10%) for mild, moderate and severe pain correspondingly. Most participants in this study have headache which is intensified by anxiety (42.4%), inadequate sleep (25%) and tiredness (17%) and most prevalent first choice of treatment used by the participants were NSAIDs (46%) and proper sleep (31%) while rare were herbal remedies and wrap of cloth around head (2.6%) and (2.4%) correspondingly.

Conclusion: In this cross sectional survey based study we conclude that people with stress and inadequate sleep are most likely to experience headache in our population, and are using NSAIDS commonly to relief the pain followed by catching up on sleep.

Key words: Headache Disorders, Tension Type Headache, Cluster Headache, Risk factors, First line-intervention

Introduction:

Almost every person at any stage of life must have experienced headache, it is the common symptom of many diseases. The Global Headache Society categorizes headaches into primary and secondary headaches. Primary headaches are not related with underlying disease and consist of migraine, tension-type, and cluster headache whereas Secondary headaches are due to underlying disease condition and comprise of any head pain due to infectious peoplastic, vascular and drug related disorders. One of the commonest complaint found in almost every age group especially young's and adolescents is Headache and is not commonly paid attention to, that is why it results in increased frequency of absentees from eshools, colleges and workplaces and ultimately reduced quality of life. Stress, inadequate sleep and too much school work (fatigue) are most commonly reported self-perceived risk factors for headache. Individuals can feel better by altering their way of life and their regular work, by using some relaxation therapy or occasionally they have to take medication for pain relief.

According to study conducted in Karachi the occurrence rate of headache is 86% from which 43% had mild, 47 % had moderate and 9% had severe headache. (6)

Fatima memorial college Lahore, conducted a study and determine the occurrence of headache and its indications in medical students and this study showed that most dominant age of headache was 21 years and 57% students have headache which continues less than one hour and 27% have headache which continues from 1 to 4 hour and 7% have headache which continues for greater than 24 hours. Majority of headaches were not due to some primary pathology, but the reason was anxiety or muscle tension, fatigue, inadequate sleep and many other. (8)

Student's population is far more affected by headache than does the normal people and it results in increase absentees from schools, colleges or students being unable to study due to headache, thus minimizing their overall academic performance.^(7, 9) Preliminary measures should be taken in order to avoid developing risk factors that cause headache in these students and there is an utmost need of further studies and researches that address main causes of headache and its curative measures.

This study will help to identify the most common types of headaches, their predisposing factors and first choice of treatment used by people in order to treat them.

Methodology:

A descriptive cross sectional community based study was conducted from January-June 2015. A sample of 500 participants was recruited through non probability purposive sampling technique from Lahore and Islamabad. Sample size was calculated by using WHO calculator. Informed consent was taken from all the participants earlier to study. The particulars were documented through a self-structured questionnaire and pain was measured using visual analogue scale (VAS).

Inclusion criteria: Adolescents (13 to 18 years) and Adults (19 to 44 years) having primary and secondary headache were included in study. Exclusion criteria: Participants having headache associated with chronic medical illness like brain tumors, post-traunatic headache and headache due to hormonal fluctuation were excluded from study. Self-structured validated Questionnaire was used which include series of questions about duration, region, predisposing factors of headache & most common first choice of treatment used for headache was self-filled by participants. The descriptive analysis of data was done through SPSS 21 {Statistical Package for Social Sciences} software.

Results

The results are given in graphical representation below (Fig. 1, 2). Majority of the participants belonged to age group 2 kto 40 years that is 62.6% and the pain severity was recorded 46%, 43% and 10 % for mild, moderate and severe pain correspondingly. The significant descriptions of statistical analysis are given here for valuation. 500 participants were recruited; Of the 500 participants female are more in number (64%, N=322) compared to male (36%, N=178). 42% of headaches are aggravated by stress, 25% by inadequate sleep, 17% by fatigue, 8% by viral flu and 6% by others (dehydration, skipping meals, loud noises, smoking). 46% of headaches are cured by NSAIDs, 31% by proper sleep, 7% by caffeine intake, 5 % by relaxation therapy, and 2% by herbal remedies, and wrap of cloth around head.

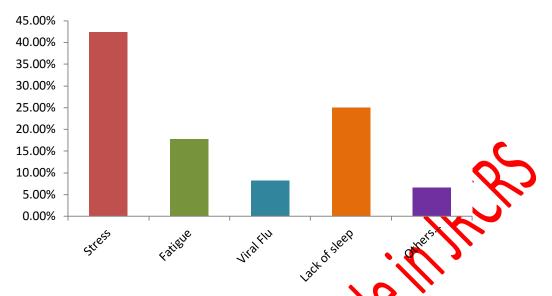


Fig: 1 Shows the frequency of Aggravating factors of Headache

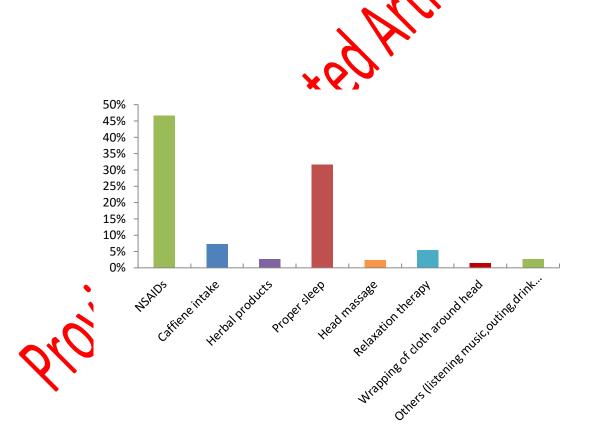


Fig: II Shows the frequency of First line of intervention

Discussion

The results of this study shows that stress, lack of sleep and fatigue are most common aggravating factors for headache and NSAIDs, regular/proper sleep, and caffeine intake is used as first line of intervention for headache. There are several studies supporting our point of view of females being more effected by headaches and stress being most common aggravating factor for migraine, tension type headaches as also shown by work of David et al & Egilius (1971)

Due to lack of literature and studies regarding risk factors for headache and first line of interventions used, there should further exploration of predisposing factors and identification of first choice of treatment in order to formulate better preventive and curative measures and to reduce the frequency of people affected by headaches, thus overall improving health status and quality of life.

Contrary to some studies that support the use of herbal medicine for headache, we found herbal medicine as a cure for headache as least used method, it may be due to improved quality and access of healthcare, people are more oriented towards taking Allopathic medicine for early relief of symptoms.^(12, 13)

This study has highlighted importance of headache and strategies to remediate it, as it is found to be the most common symptom of many illnesses affecting large number of population.

In our society family responsibilities, lack of proper diet and increased workload leads towards fatigue, lack of sleep which were found to be strongly associated with headaches. (14)

People should be ensouraged to try natural remedies instead of taking NSAIDs that have many side effects beside their therapeutic uses. Proper sleep, on time meals and avoidance of stress causing factors also prove to be effective in relieving headaches so that headache could no more be an excuse from carrying out work or having fun and joy.⁽¹⁵⁾

Conclusion:

In this cross sectional survey based study we conclude that people with stress and inadequate sleep are most likely to experience headache in our population, and are using NSAIDS commonly to relief the pain followed by catching up on sleep.

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