INTRODUCTION

Stress is body’s way of responding to any kind of demand or threat. When someone sense danger, the body's defence mechanism kicks into high gear in a rapid, automatic process known as the “fight-or-flight” reaction, or the stress response.[5] Its just not the routine or negative or traumatic stress ,it is also the time that causes stress. Stress comes from time, demands and pressure of the recent past and anticipated time, demands and pressures of the near future.[1] It’s been clear for some time that psychological stress is linked to high blood pressure, or hypertension, but the reason is unknown.[3] Situational stress is the most common type of stress. Situational stress is something when a body is subjected to a stress, the body reacts by releasing stress hormones (adrenaline and cortisol) into the blood. These hormones prepare the body for the “fight or flight” reaction, or the stress response.

These hormones temporarily increase the blood pressure by causing the heart to beat faster and the blood vessels to narrow. The easiest way to reduce stress that can indirectly influence hypertension is to avoid those unhealthy behaviours that contribute to this condition.[3] It’s also important to note that while the link between stress and high blood pressure (HBP or hypertension) is still being studied because there’s no proof that stress by itself causes long-term high blood pressure.[2]

MATERIALS AND METHODS

The study was conducted among the students of saveetha dental college and hospitals, Chennai, India. The study population consists of 60 individuals within the age group of 18-25 years. The students were assessed for change in blood-pressure in two different types of process.

1. Examinations, before their exam the blood pressure were monitored using sphygmomanometer. The process was repeated after their exam using the same sphygmomanometer. (30 individuals).
2. Timely reporting to college, blood pressure were monitored in students who came to college before reporting time i.e, 8:00am using sphygmomanometer and the process was done in students who came after 8:00am to college. (30 individuals).

RESULTS

The normal blood pressure of human is 120 mm hg systolic and 80 mm hg diastolic. The blood pressure were recorded in the two different processes.

1. During the first process i.e, before the examination the systolic pressure of the individuals were found to

*Corresponding author: Subeeksha.V.S
Department of Physiology, Saveetha Dental College.
be more the 120 mm hg and less than 140 mm hg and the diastolic pressure were found to be more than 81mm hg and less than 95 mm hg. There mean difference of the blood pressure was found to be 130/86 mm hg before examination and after examination it was 120/78 mm hg.

2. During the second process, the students who came before the reporting time i.e, 8:00am the systolic pressure were found to be less than 122 mm hg and more than 105 mm hg and their diastolic pressure was found to be less than 81 mm hg and more than 70 mm hg. The mean difference of the blood pressure was found to be 117/78 mm hg before and 129/84.

**DISCUSSION**

Although the magnitude of effect was relatively small, results suggest the relevance of the control of psychological stress to the non-therapeutic management of high blood pressure. [10] The result shows that, in both the cases time is influenced in their situational stress leading to prehypertension. The blood pressure increased when the individuals feared that they are running out of time.[7] A natural emotional and physical response to any situation where you feel you need to either cope or respond more than usual is termed as stress. Although a stressful situation temporarily raises blood pressure by releasing stress hormones that quicken heart rate and narrow blood vessels, blood pressure eventually returns to normal levels once the stress trigger disappear. [10] But often, stress leads to unhealthy behaviours. Some people deal with stress by overeating and not eating the right foods, smoking or drinking alcohol, or discontinuing physical activity. Factors like obesity and a high-salt diet contribute to hypertension, thus stress has an indirect connection to hypertension.[8] Reducing stress can help lower high blood pressure.[9]

Stress is a normal part of life. But too much stress can lead to emotional, psychological and even physical problems - including heart disease, high blood pressure, chest pains or irregular heart beats.[7] If the thought of developing hypertension is stressing you out, visit a doctor and get blood pressure checked. Find out what your blood pressure should be and keep track of it. Manage stress successfully by avoiding unhealthy behaviours do not smoke, limit alcoholic intake, give up junk food, maintain a healthy weight, and also managing time.[2]

**CONCLUSION**

Association between time and stress has been established. Stressful events are thought to influence the pathogenesis of physical disease by causing negative affective states (eg, feelings of anxiety and depression), which in turn exert direct effects on biological processes or behavioural pat- terns that influence disease risk.[6] Though time induced stress seems to be normal but this research is to create awareness that short time stress related spikes in the body added up over time lead one at a risk of developing chronic stress and that in-turn leads to long term high blood pressure so, thereby concluding that it is also necessary to manage time in order to manage stress.

**Reference**