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EFFECT OF SAGE ON HYPERTENSIVE PATIENTS

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ABSTRACT

Sage has been used as a traditional medicine for pain relief, protect the body from stress, free radical damages, inflammation of bacterial and viral infections. It is also used as a flovoring spices. Sage oil is also used as a carminative, antiseptic & astringent. The aim of the study to see the effect of sage on hypertensive patients, and the main objective is to see that how does sage acts on the hypertensive patients. The study population was about 15 Hypertensive patients of age group varying from 40-55 years. Sage was given in the form of tea for 30 days. Systolic and diastolic pressure were measured before and after in take of tea by using BP apparatus. The results were obtained, systolic and diastolic pressure value shows a slight decrease from the value before intake of sage tea. So this study may help the Hypertensive patients to maintain their BP by taking sage tea.

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INTRODUCTION

The genus Salvia, is commonly known as sage, it is the largest member of the family Laminace or the mint family which contains more than 900 species throughout the world. These plants are mostly aromatic and perennial, with flowers of different colors .Many Salvia species, including Salvia offinalis (common Sage), are the native in the Mediterranean region of Africa and some species are used worldwide for the flavoring species an also as a traditional herbal medicine [4]. Sage tea has been used for the treatment of digestive and circulatory disturbances, bronchial disease, cough and asthma hypertension and many other diseases. Salvia essential oils have been used in the treatment of wide diseases like nervous disorder, respiratory diseases, metabolic and endocrine diseases. The sage oil is also used as a carminative antiplasmodic and astringent properties. [4]

The essential oil of salvia consists of various components depending on the environmental factors. Some chemical components are flavonoids, terepenoids essential oils are very important source in screening the activity of anticancer, anti microbial, antioxidant and scavenging activity. Salvia offinalis is considered to have more amount of essential oil compared to the other species of Salvia.[2]

One of the important components of sage is flavonoids, this is the main component which involves in the reduction of blood pressure .

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Flavonoid Quercetin is the form of sage which is present, it has major effect on hypertension. Usually hypertensive patients show increased levels of plasma superoxide, hydrogen peroxide and lipid peroxide and reduced plasma levels of the antioxidant vitamin C. So flavonoid quercetin has been the main component. The daily flavonoid intake (mainly in the form of onions, apples, grapes, wine, tea, berries, herbs and spices) in the human diet is highly variable. There are many studies to see the effect of sage on different diseases over years.[5]



MATERIALS AND METHODS

The sage is commercially bought in the form of tea bags. A total of 15 patients (n=15) suffering from hypertension were chosen. They were belonging to the age group varying from 40-55 years. These patients were given with sage tea in the morning and in the evening and asked to drink the tea for 30 days. Their blood pressure was measured before and after giving the tea by using electronic BP apparatus

Inclusion Criteria:

- The persons who had hypertension
- The persons who had high blood pressure in the range of 185/120 mmHg
- The people belonging to 40-55 but suffering from hypertension
- The people of Indian population

Exclusion criteria:

• People who are with blood pressure greater than 200/160 mmHg are not given with sage.

RESULTS

The effect of sage tea on hypertension patients was noted after 30 days. There was a significant decrease in the blood pressure of the patients. The blood pressure level has decreased very gradually. Any use of medicine can't show a immediate response. Similarly the sage also showed a mild decrease in the blood pressure. On an average the blood pressure value before giving the sage tea was found to be 159/88 mmHg and after giving the sage tea gradually decreased to 155/86 mm Hg.

The table shows the blood pressure of each patients which has both the systolic and diastolic pressure separately noted;

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Patient no.	Systolic Pressure		Diastolic Pressure	
	Before	After	Before`	After
1	160	158	81	80
2	147	146	78	79
3	142	141	86	85
4	138	137	106	100
5	178	160	101	95
6	164	164	79	80
7	184	170	88	88
8	127	125	83	81
9	175	174	94	93
10	156	154	84	82
11	158	157	77	76
12	162	162	84	85
13	153	154	85	85
14	167	165	99	85
15	168	164	98	94
Mean	159	155	88	86

DISCUSSION

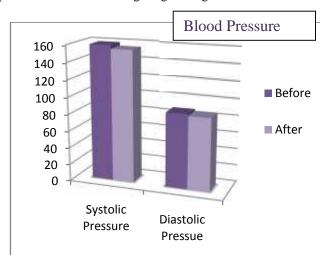
Over the years , the use of herbal medicines has attracted much attention in the scientific research and used in disease resistance, pharmaceutical applications due to their potential in anti hypertensive activity ,anti oxidant, anti cancer of these herbal medicines.^[7]

Studies shown that sage has many uses on the diseases like obesity, diabetes, hypertension, heart diseases and even cancer. [4] In previous studies it is also shown that the sage use

can reduce the hypertension and even in my study it is proven that use of sage can reduce the hypertension. There was a positive effect of sage on other diseases, as it contains many components which can reduce all those effects⁴

The present study reveals that the blood pressure level has been gradually decreased by the use of sage tea .So it has shown a positive result about the effect of Sage on the hypertensive patients. ^[6]

The graph shows the mean values of the systolic & diastolic pressure before and after giving the sage tea.



CONCLUSION

With the regards of the development of the quality of herbal medicine standardization of the extracts, phytopharmacology of different extracts, isolation and characterization of active phytopharmaceuticals, are much needed. In the changing global scenario, the interest toward plants with medicinal value is increasing substantially in the developed and in the developed and in the developed and in the developed and in the developed substantially in the developed and in the developed and in the developed and in the developed substantial phytophysical particles. This study may be very helpful for Hypertensive patients to maintain their BP by taking sage tea.

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Effect of sage on hypertensive patients

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