**Original article:**

**A comparative study of hematocrit & mean arterial blood pressure in perimenopausal women**

**\*Dr.G.Jayaram 1 , Dr.S.Srikanth 2 , G.PhaniMadhavi 3**

**\*Assistant Professor 1, Dept of Physiology, Dr PSIMS& RF, Chinnavutapalli -521286 A.P**

 **Professor 2, Dept of Physiology, Dr.PSIMS& RF, Chinnavutapalli-521286 , A.P.**

 **Postgraduate student 3 , MSc (Medical Physiology ), Dr.PSIMS& RF.**

 **Corresponding Author: Dr.G.Jayaram ; Email:drjayram@yahoo.com**

**ABSTRACT:**

**Background :** Pre-menopausal women have decreased risk of atherosclerosis & coronary heart disease compared to age matched males. The aim of this study was to compare between Hematocrit & Mean arterial pressure, with increase of age in women.

**Materials & Methods:** 90 healthy women of age group 25-55 years were selected from the general population & the data is collected by grouping them in to 3 groups, based on their age: 25 – 35 years age; 36 - 45 years age & 46 - 55 years age. A general physical examination involved the measurement of height & weight. Body Mass Index, Hematocrit (Hct) & Mean Arterial Blood pressure ( MABP ) were measured.

**Results :** When the MABP was compared between group I and group II , group I and group III , group II and group III women , we found a significant increase in the MABP in group II women , group III and group III respectively . When the Hct was compared between group I and group II women, group I and group III, group II and group III women, we found a significant decrease in Hematocrit in group II women , group III and group III respectively.

**Conclusion:** The significant findings of this study were that pre and postmenopausal women did not present a significant difference in Hematocrit and weight (in all age groups) with the exception of blood pressure, which was significantly elevated in the Postmenopausal women.

**Keywords:** Mean Arterial Blood pressure (MABP) , Hematocrit (Hct), Body Mass Index (BMI), Menopause