Dedication

TO: my family,

Every person who help me in this study,

With great deal to my teachers who guided
me in this study.

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Full regards to my supervisor Dr. Elsafi Ahmed Abdullah who gave me perfect advices, ideas and motivation to complete this research in success.

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*The abstract:

The main objective of this study is to assess the flow of blood in the uterine artery after the third and their ages range between 45-60 years using doppler waves. The study was conducted on 50 women after the third and compared with 20 women.

The study reached the following results:

The average age group of 45-60 years was 45.4 ± 2.9 years.
ABSTRACT

The main objective of this research is to assess the blood flow of the uterine artery in postmenopausal age (from 45-60 years) by using Doppler ultra sound.
The study included fifty of postmenopause, compared with Twenty premenopausal women were studied by measuring peak systolic velocity (P.S.V), end diastolic velocity (E.D.V), and PI & RI. Compared with 20 pre menopausal women blood flow measurements. The mean of age group from 45 to 60 years is 47.42 ± 9.

The resistance index (RI) of uterine artery blood flow among this age group increase by 0.004 for each year starting from 0.7. The pulsatility index (PI) increase linear relationship, the coefficient 0.3 indicates that PI reduces by 0.3 for each year starting from 19.93.

The P.S., V increase linear relationship coefficient -2.5 indicates that p.s.v reduces by -2.5 for each year starting from 162. The E.D.V increase linear relationship coefficient -0.4 indicates that E.D.V reduces by -0.4 for each year starting from 23.

These results were similar with some results of previous studies and differ with results of others which have differences in their studies.

As conclusion the main result that, the P.S.V (peak systolic velocity), E.D.V (end diastolic velocity) and PI (pulsatility index) were
reduced with age, except RI (resistance index) which was increased with age, change thesis due to age, and some Results of previous studies were similar to the results of this study and the others were different.