References

Arora M. (2007); recurrent pregnancy loss. 2nd ed. Jaypee Brother medical publishers, New Dalhi; 3-12.


Syeda B M, Angela E:(2011); Hematological defects in recurrent pregnancy loss, Pakistan institute of medical sciences, Islamabad,Pakistan.


Appendix (1) Research questionnaire:
Sudan University of Science and Technology

College of graduate studies and scientific research

Questionnaire

Date……/……/…………

Serial number

Age……………………..

Family history

No of miscarriages:

- First trimester.
- Second trimester.
- Third trimester.

Others:

…………………………………………………………………………………

Investigations:

PT………… TT…………

PTT……….. D-dimer……

Date…………

Sig …………..
**Appendix (4)** The graph results:

**Figure (4.1)** The means of prothrombin time (PT) in case and control groups.

Figure (4.1) show the mean of prothrombin time PT among recurrent miscarriage female (case) (15.8 sec) and control (13.3 sec).
**Figure (4.2)** The means (APTT) in case and control groups.

Figure (4.2) show the mean of prothrombin time PT among recurrent miscarriage female (case) (36 sec) and control (31 sec).

**Figure (4.3)** The means (TT) in case and control groups.

Figure (4.3) show the mean of prothrombin time PT among recurrent miscarriage female (case), (15.6sec) and control (14.6 sec).
**Figure (4.4)** The means (D-dimer) in case and control groups.

Figure (4.4) show the mean of D-dimer among recurrent miscarriage female (case), (987 ng/ml) and control (210 ng/ml).

**Figure (4.5)** The mean of PT (sec) in age groups <25 years and >25 years.

Figure (4.5) show the mean of PT(sec) in age group <25 (15.5) and > 25 (15.9).
**Figure (4.6)** The mean of PT (sec) in age groups <25 years and >25 years.

Figure (4.6) show the mean of PT(sec) in age group <25 (40.0) and >25 (36.0).
Figure (4.7) The mean of TT (sec) in age groups <25 years and >25 years.

Figure (4.7) show the mean of TT(sec) in age group <25 (16.9) and > 25 (15.5).
**Figure (4.8)** The mean of D-dimer (ng/ml) in age groups <25 years and >25 years.

Figure (4.8) show the mean of D-dimer (ng/ml) in age group <25 (16.9) and > 25 (15.5).

**Figure (4.9)** The mean of PT in different trimester of miscarriages (first and second).
Figure (4.9) show the mean of PT (sec) in first trimester (15.4) and second trimester (17.7).

Figure (4.10) The mean of APTT in different trimester of miscarriages (first and second)

Figure (5.10) show the mean of APTT (sec) in first trimester (15.4) and second trimester (17.7).
**Figure (4.11)** The mean of TT in different trimester of miscarriages (first and second).

Figure (4.11) show the mean of TT (sec) in first trimester (15.5) and second trimester (15.9).

![Graph showing mean TT in different trimesters](image)

The trimester of miscarriage

**Figure (4.12)** The mean of D-dimer in different trimester of miscarriages (first and second).
Figure (4.12) show the mean of D-dimer (ng/ml) in first trimester (935) and second trimester (1197).