RESULTS

Over a period of 9 months 40 women who were admitted into Benha University Hospital and Kafr Shukr Central Hospital for treatment of D.U.B and desiring contraception fulfilled the study criteria. All women agreed to participate in the study.

Table (1) shows the clinical data of the enrolled women in the study.

Table (1): Mean and S.D of age and parity of the study group:

Variable	Mean ± *S.D	Range	No
Parity	3 ± 1.5	2 – 8	40
Age	27.8 ± 5.6	22 – 43	40

* S.D = Stander deviation. P if < 0.05 = Significant

Table (2) shows that the mean of MBL before insertion of indomethacin releasing IUCD was 132.7 ± 14.8 and the 3rd month after insertion of the loop was 93.9 ± 20.9.

T difference was 16.24 with P value < 0.001.

Table (2): Shows changes in MBL before insertion and after 3 months of IR Cu IUD insertion.

	Mean ± *S.D	t	P
MBL before insertion	132.7 ± 14.8	16.24	< 0.001
MBL after 3 months	93.9 ± 20.9		

P if < 0.05 = Significant

Table (3) shows that the mean of MBL 3 months after insertion of IR Cu IUD was 93.9 ± 20.9 and after 6 months of insertion of the loop was 69.8 ± 37.8.

T difference was 8.60 with P value < 0.001.

Table (3): Shows changes in MBL after 3 months and after 6 months of IR Cu IUD insertion.

	Mean ± S.D	**t**	**P**
MBL after 3 months	93.9 ± 20.9	8.60	< 0.001
MBL after 6 months	69.8 ± 37.8		

P if < 0.05 = Significant

Table (4) shows that the mean of MBL after 6 months of insertion of IR Cu IUD was 69.8 ± 37.8 and after 9 months of insertion of the loop was 56.5 ± 42.1.

T difference was 6.19 with P value < 0.001.

Table (4) : Shows changes in MBL after 6 months and after 9 months of IR Cu IUD insertion.

	Mean ± S.D	**t**	**P**
MBL after 6 months	69.8 ± 37.8	6.19	< 0.001
MBL after 9 months	56.5 ± 42.1		

P if < 0.05 = Significant

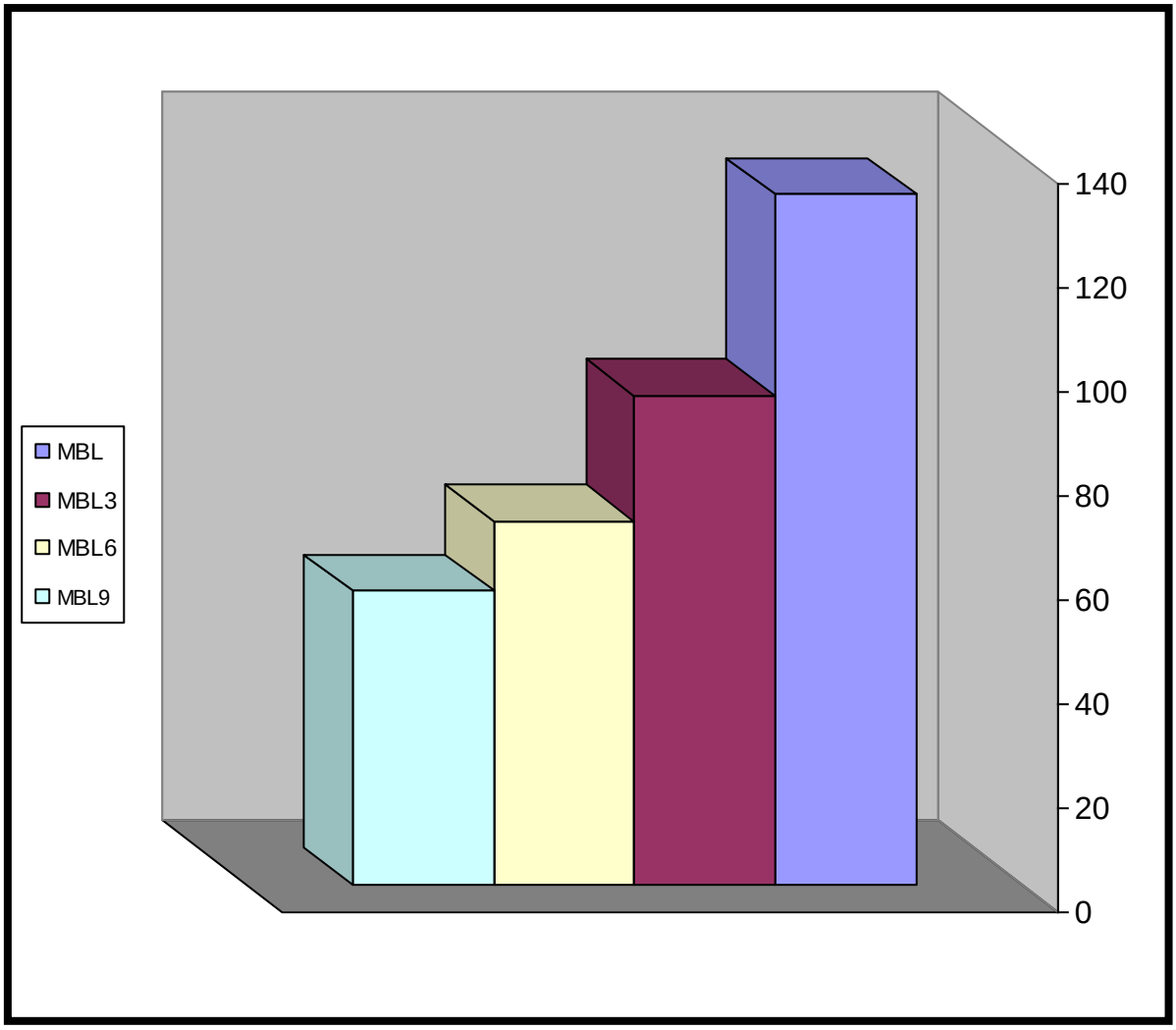

Fig. (1) The mean menstrual blood loss throughout the follow up period in the studied group

Table (5) shows that the mean of haemoglobin before insertion of indomethacin releasing– Cu IUD was 10.5 ± 0.3 and at the 3rd month of insertion of the loop was 11.06 ± 0.37.

T difference was 10.49 with P value < 0.001.

Table (5): Shows changes in HB before insertion and after 3 months of IR Cu IUD insertion.

	Mean ± S.D	**t**	**P**
HB before insertion	10.5 ± 0.3	10.49	< 0.001
HB after 3 months	11.06 ± 0.37		

P if < 0.05 = Significant

Table (6) shows that the mean of Hb after 3 month of insertion of IR Cu IUD was 11.06 ± 0.37 and after 6 month of insertion of the loop was 11.7 ± 0.75.

T differences was 7.07 with P value < 0.001.

Table (6): Shows changes in HB after 3 months and after 6 months

	Mean ± S.D	**t**	**P**
HB after 3 months	11.06 ± 0.37	7.07	< 0.001
HB after 6 months	11.7 ± 0.75		

P if < 0.05 = Significant

Table (7) shows that the mean of HB after 6 month of insertion of IR. Cu IUD was 11.7 ± 0.75 and after 9 month of insertion of the loop was 12.2 ± 0.97.

T differences was 8.71 with p value < 0.001.

Table (7): Shows changes in HB after 6 months and after 9 months

	Mean ± S.D	**t**	**P**
HB after 6 months	11.7 ± 0.75	8.71	< 0.001
HB after 9 months	12.2 ± 0.97		

P if < 0.05 = Significant

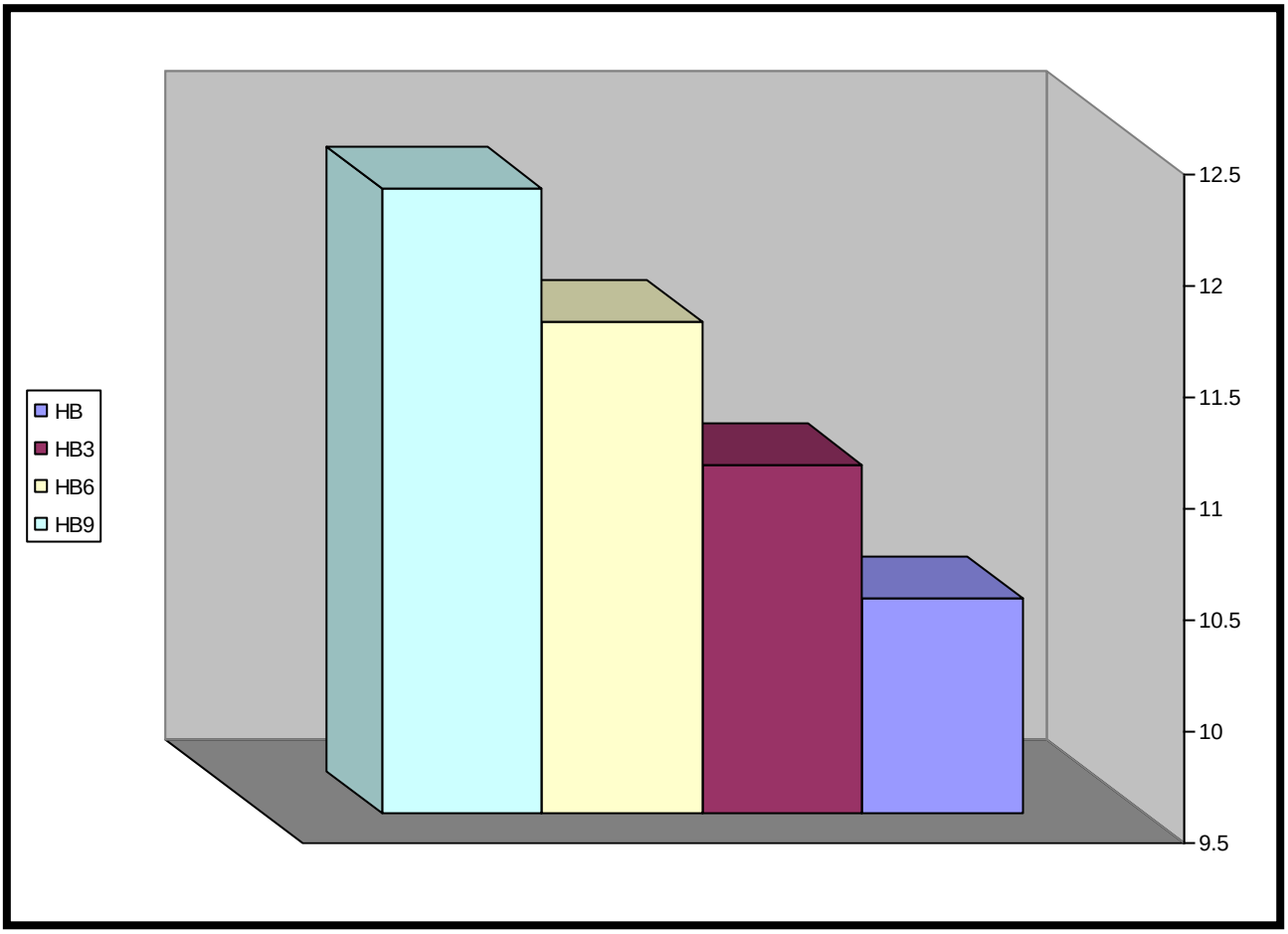

Fig. (2) : The mean haemoglobin level throughout the follow up period in the studied group

Table (8) shows that the mean of MBL before insertion of the IR.CU.IUD was 132.7 ± 14.8, after 3 months was 93.95 ± 20.96, after 6 months was 69.8 ± 37.8 and after 9 months was 56.47 ± 42.1 .

F test = 46.1 with the P value < 0.001

Table (8): Shows changes in the mean MBL before insertion and 3, 6, 9 months after insertion of the device.

	Mean ± SD	**F**	**P**
MBL before insertion	132.7 ± 14.8	46.1	< 0.001
MBL after 3 months	93.95 ± 20.96		
MBL after 6 months	69.8 ± 37.8		
MBL after 9 months	56.47 ± 42.1		

P if < 0.05 = Significant

F = Analysis of variant (ANOVA test)

Table (9) shows that the mean HB before insertion of the (IR.Cu.IUD) was 10.5 ± 0.31, after 3 months was 11.06 ± 0.36, after 6 months of insertion was 11.7 ± 0.75 and after 9 months of insertion was 12.2 ± 0.97.

F test was 55.6 with P value < 0.001.

Table (9): Shows changes in the mean HB before insertion and 3, 6, 9 months after insertion of IR.CU.IUD.

	Mean ± SD	**F**	**P**
HB before insertion	10.5 ± 0.31	55.6	< 0.001
HB after 3 months	11.06 ± 0.36		
HB after 6 months	11.7 ± 0.75		
HB after 9 months	12.2 ± 0.97		

P if < 0.05 = significant

F = Analysis of variant (ANOVA test).

Table (10) shows correlation coefficient of MBL with Hb after 3 months of insertion of IR Cu IUD was – 0.48. After 6 month of insertion of the loop was – 0.94 and after 9 month of insertion was – 0.96 with the P value < 0.001.

Table (10): Shows correlation coefficient of MBL with HB after 3,6 and 9 months of insertion of loop:

	***r**	**P**
After 3 months	- 0.48	< 0.001
After 6 months	- 0.94	< 0.001
After 9 months	- 0.96	< 0.001

* r = correlation coefficient r = negative value

P if < 0.05 = Significant