

Table (1): Effect of erythropoietin (EPO) on random blood glucose level during the whole experiment

	At day 0	at day 11	at day 22	Mauchly's test of sphericity	
				P-value>0.05	P-value <0.05
				Sphericity assumed	Lower bound
The control group(GI)	106.9 ± 12.2	107.3 ± 8.5	104.6 ± 2.99	0.803	-----
Diabetic group(GII)	347.9 ± 109.1 a	367 ± 112.1 a	377.6 ± 111.4 a	0.008	-----
Diabetic taking erythropoietin group(GIII)	372± 99.8 a	270 ± 85.4 a	201.9 ± 10.7 b	0.000	-----
Diabetic taking insulin group(GIV)	361.6 ± 128.47 a	241.3 ± 80.4 b	96.7 ± 9.5 c	-----	0.001

Data are expressed as mean ± SD, values with different letters mean significant

P-Value was calculated by repeated measures two-way ANOVA test. Statistically significant p-value <0.05.

Table (2): Effect of erythropoietin (EPO) on hematocrit value, HBA1C and C peptide in diabetic rats

	Control group(GI)	Diabetic group(GII)	Diabetic taking erythropoietin group(GIII)	Diabetic taking insulin group(GIV)	P-value
Hematocrit value	40.3 ± 3.4 b	39.7 ± 2.1 b	44.7 ± 2.6 a	39.4 ± 2.6 b	0.004
HBA1C	5.7 ± 1.04 b	12 ± 1.8 a	6.1 ± 0.8 b	6 ± 0.9 b	0.000
C peptide	0.063 ± 0.004 a	0.036 ± 0.01 b	0.062 ± .003 a	0.039 ± 0.01 b	0.000

Data are expressed as mean ± standard deviation, Values with different letters are significant

P-Value was calculated by One Way-Anova test, Statistically significant p-value <0.05

Table (3): Effect of erythropoietin (EPO) on glucose tolerance in diabetic rats **Data are**

Groups	at 0 min	30 min	60 min	90 min	120 min	Mauchly test of sphericity	
						P-value>0.05	P-value <0.05
						Sphericity assumed	Lower bound
Control group(GI)	106.14 ± 7.7 b	296 ± 87.6 a	256.3 ± 34.8 a	177.9 ± 39 a	107.1 ± 8.6 b	-----	0.001
Diabetic group(GII)	359 ± 130.7 b	528.6 ± 126.7 a	520.6 ± 128.6 a	501.3 ± 108.2 a	526.6 ± 126.1 a	0.007	-----
Diabetic taking erythropoietin group	198± 11.1 c	459.1 ± 54.1 a	393.7 ± 54.9 b	312.9 ± 38.6 b	257.9 ± 21.9 b	0.000	-----
Diabetic taking insulin group	100 ± 7.23 c	373.71 ± 43.2 a	298 ± 61.87 b	196.14 ± 47.78 b	98.86 ± 10.21 c	-----	0.000

expressed as mean ± SD, values with different letters mean significant

P-Value was calculated by Repeated measures Two Way-Anova test. Statistically significant p-value <0.0

Table (4): Effect of Erythropoietin (EPO) on insulin sensitivity in diabetic rats. **Data are**

	0 min	30 min	60 min	90 min	120min	Mauchley test of sphericity P-value>0.05 Pvalue<0.05 Sphericity Lower bound assumed
Control group (GI)	111.86 ± 10.19 a	83.57 ± 7.45 8b	60.14 ± 9.2 c	45.43 ± 7.79 c	34.57 ± 4.75 6c	----- 0.000
Diabetic group(GII)	342.86 ± 122.50	329.14 ± 123.50	339.57 ± 146.68	263.71 ± 146.95	311.86 ± 157.2	----- 0.237
Diabetic taking erythropoietin group(GIII)	205.3 ± 10 a	193.9 ± 5 a	181.14 ± 5 b	167.3 ± 4.5 c	156 ± 3.5 c	----- 0.000
Diabetic taking insulin group(GIV)	106.9 ± 10.7 a	97.3 ± 8.2 a	69.9 ± 7.7 b	57.1 ± 7.3 c	44.1 ± 4.9 c	----- 0.000

expressed as mean ± SD, values with different letters mean significant

P-Value was calculated by Repeated measures Two Way Anova test. Statistically significant p-value <0.05