

## ***RESULTS***

This study was done on 80 patients, they were divided randomly into 3 groups. The first group (22 patients) started induction with 50 mcg Misoprostol intravaginally. The second group (20 patients) started induction with 100 mcg Misoprostol intravaginally. The third group (38 patients) were given placebo (Haemofer- tablets. Ferrous gluconate, 300mg. Alexandria Co.) intravaginally for 24 hours. When induction failed as determined clinically and by cardiotocographic examination, they started induction with either 50 or 100 mcg Misoprostol randomly. Four patients from the placebo group refused to continue induction. This ended with 76 patients in our study group.

Forty out of the 76 patients started induction with 50 mcg Misoprostol (22 of them started directly induction with Misoprostol and 18 had tried induction with placebo 24 hours before), while 36 patients started induction with 100 mcg Misoprostol intravaginally, 20 of them started induction directly and 16 patients had tried induction with placebo 24 hours before.

Augmentation of labor was done only with Misoprostol, 50 mcg every 6 hours for the group who started induction with 50 mcg Misoprostol or 100 mcg Misoprostol every 12 hours for the 2<sup>nd</sup> group who started induction with 100mcg Misoprostol.

The base line clinical data of the study groups is represented in table (7)

Table (7): shows the base line clinical data of the three studied groups.

		50 mcg Group	100 mcg Group	Placebo
No.		22	20	38
AGE	Range	21-32	20 – 31	22 – 34
	Mean± S.D.	25.6±3.3	25.3±3.8	28.3±3.3
Pregnancy Duration	Range	196-298	253 – 295	182 – 299
	Mean± S.D.	269.7±27.6	275.1±12.5	258.4±40.6
±Initial Bishop Score	Range	2-8	3 – 5	2 – 5
	Mean± S.D.	4.6±2.2	4±0.9	3.15 ±0.05
Pulse	Range	70 –100	70 – 90	70 – 90
	Mean± S.D.	80.7±8.2	76.6±6.5	77.4±5.5
Systolic Blood Pressure	Range	110 -150	110 – 170	110 - 180
	Mean± S.D.	129.09±11.9	131±18.03	131.3±22.4
Diastolic Blood Pressure	Range	60 –105	70 – 100	70 – 110
	Mean± S.D.	85.45±10.9	89±12.5	85±13.8
Temp	Range	36.7 – 38	36.9 -38	36.7-37.3
	Mean± S.D.	37.27±0.42	37.22±0.33	36.98±0.2

There was no statistically significant difference in the clinical base line data of the three studied groups. (P value > 0.05)

Six patients(15%) of the 50 mcg group(n=40) delivered without the need of further augmentation dose. The rest 34 patients needed more dosage to continue delivery course(50 mcg /6hours).

Sixty four patient delivered with a total dose 100 mcg Misoprostol. The rest of the patients, 6 patients needed a total 200 mcg Misoprostol. Out of these 6 patients 2 delivered vaginally while the other 4 needed Cesarean section.

**Table (8)** represents the base line and the follow up clinical data of the six patients delivered vaginally with a total dose 50 mcg. Their age was ranging between 22 and 26 years with a mean  $23.3 \pm 2.06$  years. Their duration of pregnancy was ranging between 186 and 280 days with a mean  $245.3 \pm 46.2$  days. At the start of induction their pulse was ranging between 75 and 80 b/m with a mean  $78.3 \pm 2.58$  b/m. The systolic blood pressure was ranging between 110 and 130 mm Hg with a mean  $120 \pm 8.9$  mm Hg. The diastolic blood pressure was ranging between 70 and 90 mm Hg with a mean  $80 \pm 8.9$  mm Hg. The temperature was ranging between 37.3 and 38°C with a mean  $37.6 \pm 0.31$ °C. The initial Bishop score was ranging between 2 and 8 with a mean  $5.3 \pm 2.7$ . Six hours later their pulse was ranging between 70 and 80 b/m with a mean  $76 \pm 4.7$  b/m. The systolic blood pressure was

ranging between 110 and 120 mm Hg with a mean  $116.7 \pm 5.2$  mm Hg. The diastolic blood pressure was ranging between 70 and 80 mm Hg with a mean  $76.7 \pm 5.2$  mm Hg. The temperature was ranging between 37 and  $37.8^{\circ}\text{C}$  with a mean  $37.4 \pm 0.4^{\circ}\text{C}$ . The Bishop score was ranging between 9 and 12 with a mean  $10.7 \pm 1.4$ . The induction response time was ranging between 40 and 70 min, with a mean  $53.3 \pm 10.3$  min.

The induction delivery time was ranging between 452 and 560 min. with a mean  $496 \pm 46.7$  min. The maximum frequency of labor pain was reached after 310 to 450 min with a mean  $386.7 \pm 63.5$  min. The maximum amplitude of contraction was ranging between 70 and 90 mm Hg with a mean  $83.3 \pm 10.3$  mm Hg. The Apgar Score 1 min, was ranging between 6 and 8 with a mean  $7 \pm 1.2$ , while Apgar Score 5 min. was ranging between 8 and 10 with a mean  $9 \pm 1.2$ , Table (9). Only two patients complained of mild vomiting, which responded to mild antiemetic. All the patients didn't need sedative during the first stage of labor. Two patients showed thin fresh meconium stained liquor at the rupture of the membrane. Not a single case showed blood stained liquor or signs of fetal distress, table (10).

Four patients out of these 6 patients delivery by vaccum extraction due to fetal head malposition. Not a single patient needed admission to the neonatal care unit. On comparing between the base line and 6 hours follow-up clinical data, there was no significant difference between the systolic,

diastolic, and pulse rate ( $p > 0.05$ ). The temperature was significantly dropped after 6 hours from the start of induction ( $p < 0.05$ ).

Table (8): Represents the base line and follow up clinical data of the six patients delivered vaginally with total dose 50 mcg.

		Age	Duration of Pregnancy	Pulse	Systolic Bl. Pr.	Diastolic Bl. Pr.	Temp.	Bishop Score
Pre - induction	Range	22-26	186-280	75-80	110-130	70-90	37.3-38	2-8
	Mean $\pm$ S . D.	23.3 $\pm$	245.3 $\pm$ 46.2	78.3 $\pm$	120 $\pm$ 8.9	80 $\pm$ 8.9	37.6 $\pm$ 0.31	5.3 $\pm$ 2.7
		2.06		2.58				
6 hours later	Range	-	-	70-80	110-120	70-80	37-37.8	9-12
	Mean $\pm$ S . D.	-	-	76 $\pm$ 4.7	116.7 $\pm$ 5.2	76.6 $\pm$ 5.2	37.4 $\pm$ 0.4	10.7 $\pm$ 1.4
t Value	-	-	-	0.9388	1.5811	1.5811	12.6491	9.5618
P Value	-	-	-	0.1933	0.0873	0.0873	2.744 <sup>-5</sup>	1.059 <sup>-4</sup>
Sig.	-	-	-	N.S.	N.S.	N.S.	S*	S*

Parac  
test

S\* : significant  $P < 0.05$

↓  
dropped

Table (9): Represents follow up data of the six patients delivered vaginally with total dose 50 mcg.

	Range	Mean $\pm$ S.D.
Induction response time	40-70	53.3 $\pm$ 10.3
Induction delivery time	452-560	496 $\pm$ 46.7
Max. frequency of labor pain	310-450	386.7 $\pm$ 63.5
Max. Amplitude of contraction	70-90	83.3 $\pm$ 10.3
Apgar 1	6-8	7 $\pm$ 1.2
Apgar 5	8-10	9 $\pm$ 1.2

Table (10): Represents the complications that occurred in the six patients delivered vaginally with total dose 50 mcg.

Complication	No. %
Vomiting	2 (33.3)%
Meconium stained liquor	2 (33.3)%

Table(11): represents the base line and the follow up clinical data of the sixty four patients delivered vaginally with a total dose 100 mcg. Their age was ranging between 21 and 34 years with a mean  $27.3 \pm 3.5$  years. Their duration of pregnancy was ranging between 182 and 299 day with a mean  $261.5 \pm 34.04$  day. At the start of induction there pulse was ranging between 70 and 100 with a mean  $78.3 \pm 6.95$  b/m.

The systolic blood pressure was ranging between 110 and 180 mm Hg with a mean  $130.8 \pm 19.3$  mm Hg. The diastolic blood pressure was ranging between 60 and 110 mm Hg with a mean  $85.2 \pm 12.6$  mmHg. The temperature was ranging between  $36.7^{\circ}\text{C}$  and  $38^{\circ}\text{C}$  with a mean  $37.1 \pm 0.3^{\circ}\text{C}$ . The initial Bishop score was ranging between 1 and 7 with a mean  $3.8 \pm 1.7$ .

Six hours later their pulse was ranging between 75 and 90 b/m with a mean  $83.6 \pm 4.98$  b/m. The systolic blood pressure was ranging between 100 and 150 mm Hg with a mean  $124.5 \pm 15.3$  mm Hg. The diastolic blood pressure was ranging between 60 and 105 mm Hg with a mean  $81.7 \pm 11.8$  mm Hg. The temperature was ranging between  $37.0^{\circ}\text{C}$  and  $37.8^{\circ}\text{C}$  with a mean  $37.1 \pm 0.2^{\circ}\text{C}$ .

The Bishop score ranging between 6 and 12 with a mean of  $9.04 \pm 1.8$ . Twelve hours after the start of induction; the pulse was ranging between 80 and 90 b/m with a mean  $85.6 \pm 4.03$  b/m. The systolic

blood pressure was ranging between 100 and 140 mmHg with a mean  $118.8 \pm 15.0$  mm Hg. The diastolic blood pressure was ranging between 60 and 95 mm Hg with a mean  $75.3 \pm 10.9$  mm Hg. The temperature was ranging between  $37.0$  and  $37.5^{\circ}\text{C}$  with a mean  $37.1 \pm 0.13^{\circ}\text{C}$ . The Bishop score after 12 hours was ranging between 12 and 13 with a mean  $12.5 \pm 0.5$ . One case suffered from diarrhea after 12 hours (1.65%) which responded to symptomatic treatment. The induction response time was ranging between 30 and 80 min. with a mean  $58.4 \pm 13.8$  min. The induction delivery time was ranging between 480 and 880 min, mean  $682.07 \pm 104.7$  min.

The maximum frequency of labor pain was reached after 250 to 690 min with a mean  $416.95 \pm 97.9$  min.. The maximum amplitude of contraction was ranging between 50 and 100 mm Hg with a mean  $79.2 \pm 13.97$  mm Hg. The Apgar Score 1 min, was ranging between 4 and 9 with a mean  $7.1 \pm 1.3$ , while Apgar Score 5 min. was ranging between 6 and 10 with a mean  $9 \pm 1.14$  Table (12). Fourteen out of the sixty four (21.87%) complained from vomiting 6 hours after the use of the drug which responded to mild antiemetic.

Eighteen patients out of the sixty four (28.12%) needed mild analgesia during the first stage of labor. Only 2 patients complained of both vomiting and pain 6 hours from induction, they responded to the antiemetic and analgesic drug. Fourteen patients (21.87%) showed thin fresh meconium



stained liquor at the rupture of membrane. Six cases (9.375%) showed blood stained liquor after the rupture of the membrane. Twenty patients (31.25%) showed fetal tachycardia with a fetal heart rate more than 160 B/M with the induction dose, which was improved by changing the maternal position to the left side and oxygen mask. Sixteen patients (25%) showed tachysystole which is more than six contraction in 10 min.

As regard the mode of delivery 8 patients (12.5%) delivered by vacuum extraction out of 64 patients due to fetal head malposition. Eight babies (12.5%) needed admission to the neonatal special care unit, 4 of them due to low birth weight, 2 due to diabetic mother delivered in hypoglycemic state and 2 due to respiratory distress syndrome. Table (13)

On comparing between the base line, 6 hours and 12 hours follow-up results, it was found that there was a statistically significant difference between the systolic ( $p < 0.05$ ), diastolic ( $p < 0.0126$ ), pulse rate ( $p < 0.05$ ). The temperature was not statistically significantly changing during the course of labor ( $p > 0.05$ ).

Table (11): Represents the base line and follow up clinical data of the sixty four patients delivered vaginally with total dose 100 mcg Misoprostol.

		Age	Duration of Pregnancy	Pulse	Systolic Bl. Pr.	Diastolic Bl. Pr.	Temp.	Bishop Score
Pre- induction	Range	21-34	182-299	70-100	110-180	60-110	36.7-38	1-7
	Mean $\pm$	27.3 $\pm$	261.5 $\pm$ 34.04	78.3 $\pm$ 6.	130.8 $\pm$	85.2 $\pm$ 12.6	37.1 $\pm$ 0.3	3.8 $\pm$ 1.7
	S.D.	3.5		95	19.3			
6 hours later	Range	-	-	75-90	100-150	60-105	37-37.8	6-12
	Mean $\pm$	-	-	83.6 $\pm$	124.5 $\pm$	81.7 $\pm$ 11.8	37.1 $\pm$ 0.2	9.04 $\pm$ 1.8
	S.D.			4.98	15.3			
12 hours later	Range	-	-	80-90	100-140	60-95	37-37.5	12-13
	Mean $\pm$	-	-	85.6 $\pm$	118.8 $\pm$ 15	75.3 $\pm$ 10.9	37.1 $\pm$	12.5 $\pm$ 0.5
	S.D			40.3			0.13	
P Value	-	-	-	1.875 <sup>-7</sup>	0.0199	0.0126	0.9373	0.0001
Sig.	-	-	-	H.S	H.S.	S.	N.S	H.S.

Table (12): Represents follow up data of the sixty four patients delivered vaginally with total dose 100 mcg.

	Range	Mean $\pm$ S.D
$\pm$ Induction response time	30-80	58.4 $\pm$ 13.8
Induction delivery time	480-880	682.07 $\pm$ 104.7
Max. frequency of labor pain	250-690	416.95 $\pm$ 97.9
Max. Amplitude of contraction	50-100	79.2 $\pm$ 13.97
Apgar 1	4-9	7.1 $\pm$ 1.3
Apgar 5	6-10	9 $\pm$ 1.14

Table (13): Represents the complications that occurred with the sixty four patients delivered vaginally with total dose 100 mcg.

Complications	No.	%
Vomiting	14	21.87
Diarrhea	1	1.65
Sedation & analgesia	18	28.12
Meconium stained liquor	14	21.87
Blood stained liquor	6	9.375
Fetal tachycardia	20	31.25
Tachysystole	16	25
Assisted vaginal delivery (Vaccum extraction)	8	12.5
Admission to neonatal care unit	8	12.5

Table (14 & 15) represent the base line data and the follow up clinical data of the six patient who received a total dose 200 mcg. Their age was ranging between 26 and 31 with a mean  $27.66 \pm 2.58$ . Their duration of pregnancy was ranging between 269 and 295 day with a mean  $278.66 \pm 12.72$ . At the start of induction their pulse was ranging between 70 and 88 b/m with a mean  $76 \pm 9.29$  b/m. The systolic blood pressure was ranging between 130 and 150 mmhg with a mean  $136.66 \pm 10.32$ . The diastolic blood pressure was ranging between 90 and 105 with a mean  $95 \pm 7.74$ . The temperature was ranging between 37 and 37.2 °C the a mean  $37.1 \pm 0.089$ °C. The initial bishop score was ranging between 3 and 5 with a mean  $3.66 \pm 1.03$ . Six hours later their pulse was ranging between 70 and 90 b/m with a mean.  $78.33 \pm 9.3$  b/m. The systolic blood pressure was ranging between 120 and 150 mmhg with a mean  $131.66 \pm 14.71$  mmHg. The diastolic blood pressure was ranging between 80 and 105 mmHg with a mean  $91.66 \pm 11.25$  mmhg. The temperature was ranging between 37 and 37.3°C will a mean.  $37.1 \pm 0.15$ °C. the Bishop score was ranging between 4 and 8 will a mean  $5.33 \pm 2.06$ .

Twelve hours later after start of induction, the pulse was ranging between 75 and 90 b/m with a mean  $80 \pm 7.74$  b/m. The systolic blood pressure was ranging between 120 and 150 with a mean  $133.33 \pm 13.66$  mmhg. The diastolic blood pressure was ranging between 80 and 105 mm Hg with a mean  $91.66 \pm 11.25$  mm Hg. The temperature was ranging between 37 and

37.3°C with a mean  $37.11 \pm 0.11^\circ\text{C}$ . The Bishop score was ranging between 4 and 12 with a mean  $6.66 \pm 4.13$ .

Eighteen hours later after start of induction the pulse was ranging between 80 and 85 b/m with a mean  $82.5 \pm 2.88$  b/m. The systolic blood pressure was ranging between 120 and 150 mm Hg with a mean  $135 \pm 17.32$  mm Hg. The diastolic blood pressure was ranging between 80 and 105 mm Hg with a mean  $92.5 \pm 14.43$  mm Hg. The temperature was ranging between 37.1 and 37.2 °C with a mean  $37.15 \pm 0.05^\circ\text{C}$ .

The Bishop score was ranging between 4 and 5 with a mean  $4.5 \pm 0.57$ .

Twenty four hours later, the pulse was ranging between 80 and 85 b/m with a mean  $82.5 \pm 2.88$  b/m. The systolic blood pressure was ranging between 120 and 150 mm Hg with a mean  $135 \pm 17.32$  mm Hg. The diastolic blood pressure was ranging between 80 and 105 mm Hg with a mean  $92.5 \pm 14.43$  mm Hg. The temperature was ranging between 37.1 and 37.2°C with a mean  $37.15 \pm 0.05^\circ\text{C}$ . The Bishop score was 5.

The induction response time was ranging between 60 and 130 min with a mean  $103.33 \pm 33.86$  min. The induction delivery time was ranging between 863 and 1450 min with a mean  $1251 \pm 296.71$  min. The maximum frequency of labor pain was reached after 320 to 660 min with a mean  $476.66 \pm 153.44$  min. The maximum amplitude of contraction was ranging between 45 and 75 mm Hg with a mean  $56.66 \pm 14.37$  mm Hg.

The Apgar score 1 min was ranging between 4 and 7 with a mean  $5.33 \pm 1.36$  while the Apgar score 5 minutes was ranging between 6 and 9 with a mean  $7.66 \pm 1.36$ . Two cases (33.3%) showed blood stained liquor after rupture of the membrane. Two patients (33.3%) showed tachysystole Which is more than the 6-contractions/10min. 4 patients delivered by C.S. (66.6%) due to failed induction after 24 hours and 2 delivered vaginally (33.33%) table (16).

Table (14): Represents the base line and follow up clinical data of the six patients delivered vaginally with total dose 200 mcg Misoprostol.

		Age	Duration of Pregnancy	Pulse	Systolic Bl. Pr.	Diastolic Bl. Pr.	Temp.	Bishop Score
Pre- induction	Range	26-31	269-295	70-88	130-150	90-105	37-37.2	3-5
	Mean $\pm$	27.66 $\pm$	278.66 $\pm$	76 $\pm$	136.66 $\pm$	95 $\pm$	37.1 $\pm$	3.66 $\pm$
	S.D.	2.58	12.72	9.29	10.32	7.74	0.089	1.03
6 hours later	Range	-	-	70-90	120-150	80-105	37-37.3	4-8
	Mean $\pm$	-	-	78.33 $\pm$	131.66 $\pm$	91.66 $\pm$	37.1 $\pm$	5.33 $\pm$
	S.D.	-	-	9.3	14.71	11.25	0.15	2.06
12 hours later	Range	-	-	75-90	120-150	80-105	37-37.3	4-12
	Mean $\pm$	-	-	80 $\pm$	133.33 $\pm$	91.66 $\pm$	37.11 $\pm$	6.66 $\pm$
	S.D.	-	-	7.74	13.66	11.25	0.11	4.13
18 hours later	Range	-	-	80-85	120-150	80-105	37.1-37.2	4-5
	Mean $\pm$	-	-	82.5 $\pm$	135 $\pm$	92.5 $\pm$	37.15 $\pm$	4.5 $\pm$
	S.D.	-	-	2.88	17.32	14.43	0.05	0.57
24 hours later	Range	-	-	80-85	120-150	80-105	37.1-37.2	5
	Mean $\pm$	-	-	82.5 $\pm$	135 $\pm$	92.5 $\pm$	37.15 $\pm$	5
	S.D.	-	-	2.88	17.32	14.43	0.05	0
P Value	-	-	-	0.6199	0.9805	0.9866	0.9035	0.2881
Sig.	-	-	-	N.S	N.S.	N.S.	N.S	N.S.

Table (15): Represents follow up data of the six patients delivered vaginally with total dose 200 mcg.

	Range	Mean + S.D
Induction response time	60-130	103.33 $\pm$ 33.86
Induction delivery time	863-1450	1251 $\pm$ 296.71
Max. frequency of labor pain	320-660	476.66 $\pm$ 153.44
Max. Amplitude of contraction	45-75	56.66 $\pm$ 14.37
Apgar 1	4-7	5.33 $\pm$ 1.36
Apgar 5	6-9	7.66 $\pm$ 1.36

Table (16): Represents the complications that occurred with the six patients delivered vaginally with total dose 200 mcg.

Complications	No.	%
*Blood stained liquor	2	33.3
*Tachysystole	2	33.3
Cesarean section	4	66.6

On comparing between the base line, 6 hours, 12 hours, 18 hours and 24 hours. It was found that no statistically significant change in pulse, systolic, diastolic or the temp.  $P > 0.05$ .

On comparing between the basic clinical and follow up data of 6 patients who delivered by total dose 50 mcg Misoprostol and 64 patients who



delivered by total dose 100 mcg, we found that, there is no statistically significant difference between the two groups as regard initial systolic, diastolic blood pressure and pulse. There is statistically significant difference in initial temp, Bishop score, age and pregnancy duration table (17 ).

Table (17) Represents the basic clinical data of the 6 patients who delivered by 50 mcg and 64 patients who delivered by 100mcg Misoprostol

		Age	Duration of Pregnancy	Pulse	Systolic Bl. Pr.	Diastolic Bl. Pr.	Temp.	Bishop Score
50 mcg Group	Range	22-26	186-280	75-80	110-130	70-90	37.3-38	2-8
	Mean±	23.3±	245.3±	78.3±	120±	80±	37.6±	5.3±
	S.D.	2.06	46.2	2.58	8.9	8.9	0.31	2.7
100 mcg Group	Range	21-34	182-299	70-100	110-180	60-110	36.7-38	1-7
	Mean±	27.3±	261.5±	78.3±	130.8±	85.2±	37.1±	3.8±
	S.D.	3.5	34.04	6.95	19.3	12.6	0.3	1.7
t Value		2.7052	2.214	0.0072	-1.3494	-0.9743	4.2432	2.0372
P Value		4.309	2.314	0.4971	0.0908	0.1667	3.414	0.0228
		S.	S.	N.S.	N.S.	N.S.	S.	S.

There is no statistically significant difference as regard systolic and diastolic blood pressure after 6 hours.

There is statistically significant difference in pulse, temp and Bishop scores after 6 hours table (18).

Table (18): Represents the follow up data of the 6 patients who delivered by 50 mcg and 64 patients who delivered by 100mcg Misoprostol

		Pulse	Systolic BL	Diastolic BL	Temp.	Bishop Score
			Pr.	Pr.		
50 mcg	Range	70-80	110-120	70-80	37-37.8	9-12
Group						
	Mean±	76±4.7	116.7±5.2	76.6±5.2	37.4±0.4	10.7±1.4
	S.D.					
100 mcg	Range	75-90	100-150	60-105	37-37.8	6-12
Group						
	Mean±	83.6±4.98	124.5±15.3	81.7±11.8	37.1±0.2	9.04±1.8
	S.D.					
t Value		-3.5638	-1.2415	-1.0346	2.9112	1.8893
P Value		3.369	0.10.93	0.1523	2.432	0.0316
		S.	N.S.	N.S.	S.	S.

There is no statistically significant difference as regard: Induction response time (I.R.T.), Maximum amplitude of contraction(M.A.C), maximum frequency of labor pain(M.F.L.P.), Apgar score 1 min and Apgar score 5min.

There is statistically significant difference in induction delivery time (I.D.T) table (19)

Table (19): Represents the follow up data of the 6 patients who delivered by 50 mcg and 64 patients who delivered by 100mcg Misoprostol

		* I.R.T	* I.D.T	* M.F.L.P	M. Ampt. Of Cont.	Apgar 1	Apgar 5
50 mcg	Mean $\pm$	53.33 $\pm$	496 $\pm$	386.7 $\pm$	83.3 $\pm$ 10.3	7 $\pm$ 1.2	9 $\pm$ 1.2
Group	S . D.	10.3	46.7	63.5			
100 mcg	Mean $\pm$	58.4 $\pm$ 1	682.07	416.95 $\pm$	79.2 $\pm$ 13.97	7.1 $\pm$ 1.3	9 $\pm$ 1.14
Group	S . D.	3.8	$\pm$ 104.7	97.9			
t Value		-0.8826	-4.2892	-0.7402	0.7012	-0.1664	-0.1495
P Value		0.1903	2.902	0.2309	0.2428	0.4342	0.4409
		N.S	S.	N.S.	N.S.	N.S.	N.S.

\* I . R . T : Induction response time

\* I . D . T : Induction delivery time

\* M . F . L . P : maximum frequency of labor pain

On comparing between the basic clinical and follow up data of the 6 patients, who delivered by total dose of 50 mcg and the 6 patients who delivered by total dose of 200 mcg Misoprostol, there was no statistically

significant difference regarding, the initial pulse, Bishop score and pregnancy duration. Meanwhile, there was statistically significant difference regarding, age, initial systolic, diastolic blood pressure and temp, table (20).

Table (20): Represents the basic clinical data of the 6 patients who delivered by 50 mcg and 6 patients who delivered by 200mcg Misoprostol

		Age	Duration of Pregnancy	Pulse	Systolic Bl. Pr.	Diastolic Bl. Pr.	Temp.	Bishop Score
50 mcg Group	Mean $\pm$ S . D .	23.3 $\pm$ 2.06	245.3 $\pm$ 46.2	78.3 $\pm$ 2.58	120 $\pm$ 8.9	80 $\pm$ 8.9	37.6 $\pm$ 0.31	5.3 $\pm$ 2.7
200 mcg Group	Mean $\pm$ S . D .	27.66 $\pm$ 2.58	278.66 $\pm$ 12.72	76 $\pm$ 9.29	136.66 $\pm$ 10.32	95 $\pm$ 7.74	37.1 $\pm$ 0.089	3.66 $\pm$ 1.03
t Value		-3.2101	1.1872	0.5925	2.9881	-3.1053	4	1.3975
P Value		4.665	0.0754	0.2834	6.809	5.575	1.259	0.0962
		S.	N.S.	N.S.	S.	S.	S.	N.S.

There is statistically significant difference at systolic and diastolic blood pressure and Bishop score after 6 hours. No statistically significant difference at both pulse and temperature table (21)

Table (21): Represents the follow up clinical data of the 6 patients who delivered by 50 mcg and 6 patients who delivered by 200mcg Misoprostol

		Pulse	Systolic BL. Pr.	Diastolic BL. Pr.	Temp.	Bishop Score
50 mcg Group	Mean $\pm$ S . D .	76 $\pm$ 4.7	116.7 $\pm$ 5.2	76.6 $\pm$ 5.2	37.4 $\pm$ 0.4	10.7 $\pm$ 1.4
200 mcg Group	Mean $\pm$ S . D .	78.33 $\pm$ 9.3	131.66 $\pm$ 14.71	91.66 $\pm$ 11.25	37.1 $\pm$ 0.15	5.33 $\pm$ 5.06
t Value		-0.5473	-2.3554	-2.9672	1.6609	5.275
P Value		0.2981	0.0201	7.056	0.0639	1.801
		N.S.	S.	S.	N.S.	S.

There was a statistically significant difference as regard I.R.T, I.D.T, maximum amplitude of contraction and Apgar 1, no statistically significant difference as regard maximum frequency of labor pain and Apgar 5 score table (22).

Table (22): Represents the follow up data of the 6 patients who delivered by 50 mcg and 6 patients who delivered by 200 mcg Misoprostol

		I.R.T	I.D.T	M.F.L.P	M. Ampl. Of Conl.	Apgar 1	Apgar 5
50 mcg	Mean $\pm$	53.3 $\pm$	496 $\pm$	386.7 $\pm$	83.33 $\pm$	7 $\pm$ 1.2	9 $\pm$ 1.2
Group	S . D	10.3	46.7	63.5	10.3		
200 mcg	Mean $\pm$	103.33 $\pm$	1251	476.66 $\pm$	56.66 $\pm$	5.33 $\pm$	7.66 $\pm$
Group	S . D	33.86	$\pm$ 296.71	153.44	14.17	1.36	1.36
t Value		-3.4595	-6.1571	-1.3276	3.6901	2.0	1.6
P Value		3.06	5.366	0.1069	2.088	0.0403	0.0741
		S.	S.	N.S.	S.	S.	N.S.

On comparing between the basic clinical and follow up data of 64 patients who delivered by total dose 100 mcg and 6 patients who delivered by total dose 200 mcg, there was no statistically significant difference in age, pregnancy duration, initial Bishop score, pulse, temperature, initial systolic blood pressure but, statistically significant only in initial diastolic blood pressure, table (23).

Table (23): Represents the basic clinical data of the 64 patients who delivered by 100 mcg and 6 patients who delivered by 200mcg Misoprostol

		Age	Duration of Pregnancy	Pulse	Systolic Bl. Pr.	Diastolic Bl. Pr.	Temp.	Bishop Score
100 mcg	Mean $\pm$	27.3 $\pm$	261.5 $\pm$	78.3 $\pm$	130.8 $\pm$	85.2 $\pm$	37.1 $\pm$	3.8 $\pm$ 1.7
Group	S . D .	3.5	34.04	6.95	19.3	12.6	0.3	
200 mcg	Mean $\pm$	27.66 $\pm$	278.66 $\pm$	76 $\pm$	136.66 $\pm$	95 $\pm$	37.1 $\pm$	3.66 $\pm$
Group	S . D .	2.58	12.72	9.29	10.32	7.74	0.089	1.03
t Value		-0.0239	-1.282	0.7569	-7346	1.8689	0	0.1158
P Value		0.405	0.983	0.2259	0.3226	0.033	0.5	0.4541
		N.S.	N.S.	N.S.	N.S.	S.	N.S.	N.S.

Table (24) shows that there is a statistically significant difference in Bishop score, pulse, diastolic blood pressure and no statistically significant difference in systolic blood pressure and temperature after 6 hours.

Table (24): Represents the follow up clinical data after 6 hours of the 64 patients who delivered by 100 mcg and 6 patients who delivered by 200mcg Misoprostol

		Pulse	Systolic BL. Pr.	Diastolic BL. Pr.	Temp.	Bishop Score
100 mcg Group	Mean $\pm$ S . D .	83.6 $\pm$ 4.98	124.5 $\pm$ 15.3	81.7 $\pm$ 11.8	37.1 $\pm$ 0.2	9.04 $\pm$ 1.8
200 mcg Group	Mean $\pm$ S . D .	78.33 $\pm$ 9.3	131.66 $\pm$ 14.71	91.66 $\pm$ 11.25	37.1 $\pm$ 0.15	5.33 $\pm$ 2.06
t Value		2.2577	-1.0923	-1.9823	0.1588	4.2397
P Value		0.0136	0.1393	0.0257	0.4371	3.457
		S.	N.S.	S.	N.S.	S.



Table (25) shows that there is a statistically significant difference in systolic and diastolic blood pressure, pulse and Bishop score but no statistically significant difference in temperature after 12 hours table (25).

Table (25): Represents the follow up clinical data after 12 hours of the 64 patients who delivered by 100 mcg and 6 patients who delivered by 200mcg Misoprostol

		Pulse	Systolic Bl. Pr.	Diastolic Bl. Pr.	Temp.	Bishop Score
100 mcg Group	Mean $\pm$ S . D .	85.6 $\pm$ 40.3	118.8 $\pm$ 15	75.3 $\pm$ 10.9	37.1 $\pm$ 0.13	12.5 $\pm$ 0.5
200 mcg Group	Mean $\pm$ S . D .	80 $\pm$ 7.74	133.33 $\pm$ 13.66	91.66 $\pm$ 11.25	37.11 $\pm$ 0.11	6.66 $\pm$ 4.13
t Value		2.2593	-2.0756	-3.1142	0.0337	5.7657
P Value		0.0178	0.0255	2.733	0.4.867	6.077
		S.	S.	S.	N.S.	H. S.

Table (26) shows that there is a Statistically significant difference in I.R.T. & I.D.T. Apgar score 1 and 5, but no statistically significant difference in maximum frequency of labor pain and maximum amplitude of contractions table (26).

Table (26): Represents the follow up data of the 64 patients who delivered by 100 mcg and 6 patients who delivered by 200 mcg Misoprostol

		I.R.T	I.D.T	M.F.L.P	M. Ampl Of Cont.	Apgar 1	Apgar 5
100 mcg	Mean $\pm$	58.4 $\pm$	682.07	416.95 $\pm$	79.2	7.1 $\pm$ 1.3	9 $\pm$ 1.14
Group	S . D .	13.8	$\pm$ 104.7	97.9	$\pm$ 13.97		
200 mcg	Mean $\pm$	103.33 $\pm$	1251 $\pm$	476.66 $\pm$	56.66 $\pm$	5.33 $\pm$	7.66 $\pm$
Group	S . D .	33.86	296.71	153.44	14.37	1.36	1.36
t Value		-6.5219	-10.3305	-1.3571	-1.1223	3.2265	1.7064
P Value		5.098	1.000314	0.0896	0.0648	1.023	0.0466
		S.	H. S.	N.S.	N.S.	S.	S.