RESULTS

Results

The control groups:

Recorded data of the effect of oxytocin in different doses on the spontaneous contraction of non-pregnant non-diabetic myometrium are given in table **(1A).**

From this table : It was found that there were increase in both frequency and amplitude of contraction versus the control by 0.01mg/ml oxytocin the values of frequencies are found to range from 3 to 5 w/15min with a mean value (±SEM) of (4.33±0.333) versus values of the control frequency that ranged from 2to4w/15min with a mean (±SEM) of (2.66±0.333) , and the values of the amplitudes were found to range from 0.6 to 3.5with a mean value of (1.73±0.443) versus the values of then control amplitude that range from 0.3 to 3 with a mean values of (1.36 ±0.376) , this changes were found to be highly significant ($P<0.01$) table**(1 B,1 C)** .

Also, there were increase in the values of both the frequency and the amplitude of contraction versus the values of the control by 0.1mg/ml oxytocin. The values of the frequencies were found to range from 5to 8 w/15minwith a mean value of (6.66±0.494)and the values of the amplitude were found to range from 1.5to4.2 with a mean value of (2.86±0.443) , these changes were found to be more highly significant ($P<0.001$) table**(1 B,1 C).**

The values of both the frequencies and the amplitudes of 1 mg/ml oxytocin versus the values of the control showed a general increasing effect of oxytocin. The values of the frequencies were found to range from 7 to 9 w/15min with a mean value of (8.16±0.401) and the values of the amplitudes were found to range from 1.7 to5.2 with a mean value of (3.8±0.596).

Moreover, these changes were found to be more highly significant ($P<0.001$) tables **(1 B, 1 C)** as shown in figures **(5, 6, 7)**

Table (1A): Shows the effect of oxytocin in different doses on the spontaneous contractions of non-pregnant non diabetic myometrium.

	Oxytocin							
	Spont. Cont.		0.01 mg/mL		0.1mg/mL		1 mg/mL	
	W/15 min (F)	Amp.	W/15min (F)	Amp.	W/15min (F)	Amp.	W/15min (F)	Amp.
1	4	1.4	5	2.5	6	3.9	7	4.7
2	2	3	3	3.5	5	4.2	9	5.2
3	2	0.3	4	0.6	6	1.9	7	2.3
4	3	1.6	5	1.3	7	2.5	8	4
5	2	0.8	4	0.9	8	1.5	9	1.7
6	3	1.1	5	1.6	8	3.2	9	4.9
$\overline{X}$	2.66	1.36	4.33	1.73	6.66	2.866	8.166	3.8
SDM	0.816	0.92	0.816	1.08	1.211	1.085	0.983	1.46
SEM	0.333	0.37	0.333	0.44	0.494	0.443	0.401	0.59