

Results

RESULTS

AGE, PARITY AND WEIGHT

Our cases in the 3 groups were matched for age, parity and weight (table 1,2,3).

Table 1: Age distribution

Group Age (years)	Lippes	TCu 200	TCu 380A
15-20	1	0	1
21-25	8	6	11
26-30	6	8	4
31-35	4	5	3
36-40	1	1	1
Total	20	20	20
Range	19-38	23-37	20-37
Mean	27.15	29.35	26.90
SD _±	5.254	4.308	5.119
t	—	1.4481	0.1524
p	—	> 0.05	> 0.05

This table shows that there was no statistically significant difference in the mean age ($P > 0.05$).

Table 2 : Parity distribution.

Group Parity	Lippes	TCu 200	TCu 380A
1	2	0	3
2	3	4	3
3	5	6	8
4	3	4	1
5	2	2	1
6	3	3	3
7+	2	1	1
Total	20	20	20
Range	1-7	2-7	1-7
Mean	3.85	3.85	3.35
SD_±	1.872	1.531	1.785
t	—	0.000	0.8642
p	—	>0.05	>0.05

—> This table shows that there was statistically insignificant difference in the 3 groups regarding mean parity ($P > 0.05$).

Table 3 : Weight distribution.

Group Weight (kg)	Lippes	TCu 200	TCu 380A
50 - 55	0	2	0
56 - 60	4	4	9
61 - 65	7	5	6
66 - 70	3	2	4
71 - 75	4	5	0
76 - 80	2	2	1
Total	20	20	20
Range	59 - 79	55 - 78	57 - 78
Mean	66.55	66	63.4
SD±	6.057	7.504	5.345
t	—	0.2551	1.7443
P	—	>0.05	> 0.05

This table shows that there was no statistically significant difference between the 3 groups regarding mean weight ($P>0.05$).

ERYTHROCYTES SEDIMENTATION RATE

Table 4 shows the results of erythrocyte sedimentation rate in individual cases of Lippes IUCD users at 1 hour and 2 hours .

Table 5 shows the results of erythrocyte sedimentation rate in individual cases of TCu 200 IUCD users at 1 hour and 2 hours.

Table 6 shows the results of erythrocyte sedimentation rate in individual cases of TCu 380A IUCD users at 1 hour and 2 hours.

Table 4 : Results of ESR in Lipides IUCD users.

Case NO.	Age years	Parity	Weight (Kg)	Height (Cm)	Pre-insert mm / h 1h. 2h.	24h. Post-insert mm / h 1h. 2h.	4w. Post-insert mm / h 1h. 2h.
1	22	1	60	160	5 - 10	5 - 09	5 - 10
2	35	7	75	170	7 - 12	7 - 13	7 - 11
3	30	2	70	172	4 - 09	4 - 10	5 - 10
4	35	5	79	178	6 - 11	6 - 12	7 - 12
5	21	2	65	159	7 - 13	7 - 12	6 - 12
6	27	2	63	162	5 - 10	4 - 09	5 - 10
7	19	3	59	158	5 - 08	5 - 09	5 - 09
8	30	3	65	170	4 - 09	5 - 10	4 - 10
9	25	6	66	170	5 - 11	5 - 10	6 - 11
10	38	7	70	159	8 - 14	7 - 13	7 - 13
11	28	4	71	160	7 - 12	7 - 13	6 - 12
12	25	6	76	164	6 - 11	7 - 12	6 - 12
13	23	3	71	162	7 - 13	7 - 12	5 - 09
14	26	4	60	159	6 - 11	6 - 12	5 - 10
15	31	5	72	165	5 - 10	5 - 11	6 - 12
16	25	3	63	158	8 - 13	7 - 12	7 - 12
17	22	4	61	160	5 - 11	6 - 11	5 - 09
18	21	1	59	158	6 - 10	6 - 12	7 - 13
19	28	6	62	160	7 - 12	7 - 13	6 - 12
20	32	3	64	162	5 - 09	6 - 10	5 - 10
Range	19-38	1-7	59-79	158-178	4 - 08	4 - 07	4 - 07
Mean.	27.15	3.85	66.55	163.3	5.9	5.95	5.75
SD +.	5.254	1.872	6.057	5.704	1.210	1.05	0.910
SEM .	1.175	0.419	1.354	1.275	0.271	0.235	0.203

Mean of ESR was measured for the first hour.

Table 5 : Results of ESR in TCU 200 IUCD users.

Case NO.	Age years	Parity	Weight (Kg)	Height (Cm)	Pre-insert mm / h 1h. 2h.	24h. Post-insert mm / h 1h. 2h.	4w. Post-insert mm / h 1h. 2h.
1	30	3	65	170	7 - 14	7 - 14	7 - 13
2	37	7	78	160	8 - 15	7 - 14	9 - 16
3	25	2	55	156	8 - 14	7 - 12	8 - 14
4	30	3	65	160	8 - 15	7 - 12	7 - 13
5	35	6	76	170	4 - 09	4 - 09	5 - 10
6	23	3	63	173	5 - 10	4 - 09	4 - 09
7	24	2	55	168	6 - 12	6 - 11	5 - 10
8	25	3	56	163	7 - 12	5 - 10	6 - 10
9	25	2	63	156	8 - 14	8 - 14	8 - 14
10	35	6	72	153	9 - 15	8 - 13	8 - 13
11	32	3	75	160	6 - 12	6 - 12	6 - 11
12	27	4	72	158	4 - 10	4 - 09	4 - 09
13	30	4	69	162	6 - 10	5 - 10	6 - 10
14	30	4	65	172	6 - 12	6 - 11	5 - 10
15	25	2	60	156	6 - 11	7 - 12	5 - 10
16	35	6	72	166	5 - 10	5 - 10	5 - 10
17	29	5	74	159	4 - 08	4 - 09	4 - 09
18	28	4	56	160	5 - 09	5 - 09	5 - 09
19	35	5	70	163	6 - 12	7 - 13	6 - 11
20	27	3	59	153	8 - 15	7 - 15	8 - 16
Range	23-37	2 - 7	55-78	153-173	4 - 09	4 - 08	4 - 09
Mean.	29.35	3.85	66	161.9	6.3	5.95	6.05
SD +.	4.308	1.531	7.504	6.129	1.525	1.356	1.538
SEM .	0.963	0.342	1.678	1.371	0.341	0.303	0.344

Mean of ESR was measured for the first hour.

Table 6 : Results of ESR in TCU 380A IUCD users.

Case NO.	Age years	Parity	Weight (Kg)	Height (Cm)	Pre-insert mm / h 1h. 2h.	24h. Post-insert mm / h 1h. 2h.	4w. Post-insert mm / h 1h. 2h.
1	29	3	70	160	7 - 10	7 - 11	7 - 11
2	25	2	63	166	6 - 10	6 - 10	6 - 10
3	35	6	78	172	9 - 14	8 - 13	8 - 13
4	24	3	58	159	4 - 10	5 - 10	5 - 10
5	35	7	65	163	8 - 12	8 - 13	8 - 12
6	22	2	60	158	6 - 10	6 - 11	6 - 11
7	25	3	65	157	8 - 14	8 - 14	9 - 15
8	27	5	67	163	6 - 11	5 - 10	5 - 10
9	29	4	70	178	7 - 13	7 - 14	7 - 14
10	22	1	57	164	4 - 10	5 - 10	5 - 10
11	25	3	61	160	3 - 06	3 - 07	3 - 07
12	37	6	64	160	8 - 14	7 - 14	8 - 15
13	23	3	59	156	5 - 10	5 - 10	5 - 11
14	25	3	63	160	4 - 08	4 - 09	5 - 10
15	35	6	70	175	7 - 13	8 - 13	7 - 12
16	30	3	60	159	6 - 12	6 - 11	5 - 12
17	24	3	59	163	5 - 10	5 - 10	5 - 10
18	20	1	60	165	5 - 09	5 - 09	4 - 08
19	25	1	60	167	7 - 12	8 - 12	8 - 13
20	21	2	59	163	4 - 10	5 - 10	5 - 10
Range	20-37	1 - 7	57-78	156-178	3 - 09	3 - 08	3 - 09
Mean.	26.90	3.35	63.4	163.4	5.95	6.05	6.05
SD +.	5.119	1.785	5.345	5.871	1.669	1.504	1.605
SEM .	1.145	0.399	1.195	1.313	0.373	0.336	0.359

Mean of ESR was measured for the first hour.

Table 7 shows the range and mean values of erythrocyte sedimentation rate, before, 24 hours and 4 weeks after application of Lippes IUCDs. The difference was statistically insignificant ($P > 0.05$).

Table 8 shows the range and mean values of erythrocyte sedimentation rate, before, 24 hours and 4 weeks after application of TCu 200 IUCDs. The difference was statistically insignificant ($P > 0.05$).

Table 9 shows the range and mean values of erythrocyte sedimentation rate, before, 24 hours and 4 weeks after application of TCu 380A IUCDs. The difference was statistically insignificant ($P > 0.05$).

Table 7 : ESR before, 24 hours and 4 weeks after Lippes IUCDs application.

Sample Data	Pre-insertion	24h.post-insertion	4w.post-insertion
Range (mm/h)	4 - 8	4 - 7	4 - 7
d' (mm/h)		0.05	-0.15
SD±		0.6048	0.8751
SEM		0.1352	0.1957
Paired t		0.3698	-0.7665
P		>0.05	>0.05

df: (degree of freedom) = $n-1 = 19$ n: number of cases.

d': (mean of differences) = $\frac{\sum (x' - x)}{n}$

SD: standard deviation

SEM: standard error of the mean

P > 0.05 insignificant

Table 8: ESR before, 24 hours and 4 weeks after TCu 200 IUCDs application.

Sample Data	Pre-insertion	24h.post-insertion	4w.post-insertion
Range (mm/h)	4 - 9	4 - 8	4 - 9
d' (mm/h)		-0.35	-0.25
SD±		0.7452	0.6387
SEM		0.1749	0.1428
Paired t		-2.9011	-1.7507
P		>0.05	>0.05

df = 19

P > 0.05 insignificant.

Table 9: ESR before, 24 hours and 4 weeks after TCu 380A IUCDs application.

Sample Data	Pre-insertion	24h. post-insertion	4w.post-insertion
Range(mm/h)	3 - 9	3 - 8	3 - 9
d' (mm/h)		0.1	0.1
SD±		0.6407	0.7182
SEM		0.1433	0.1606
Paired t		0.6978	0.6227
P		>0.05	>0.05

df = 19

P > 0.05 insignificant

Figure (1): Shows mean value of erythrocytes sedimentation rate before, 24 hours and 4 weeks after insertion of Lippes, TCu200 and TCu380A IUCDs.

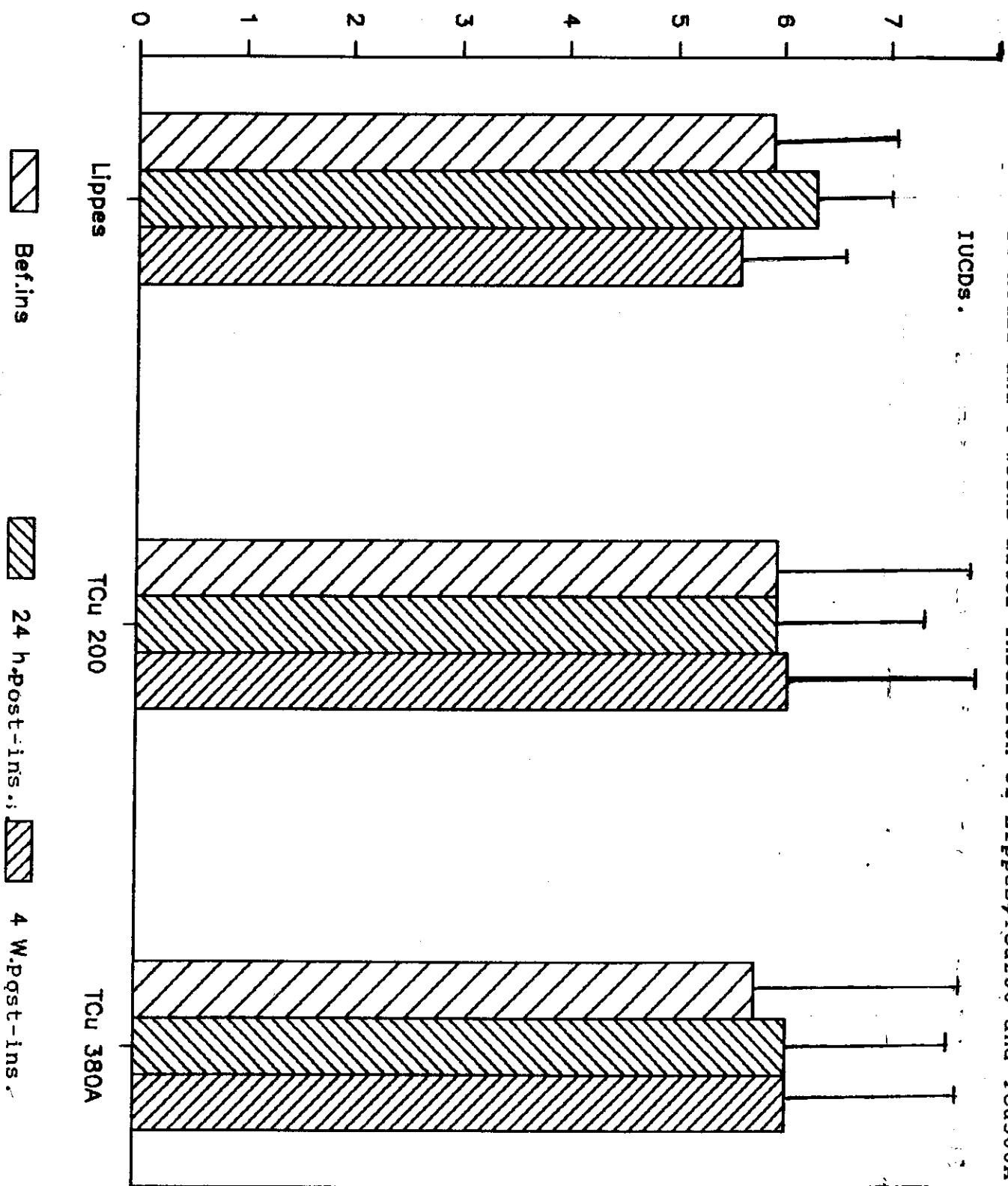


Table 10, shows the mean preinsertion ESR in the 3 groups. The difference was statistically insignificant ($P > 0.05$).

Table 10: Comparison of the mean pre-insertion ESR in the three groups

Group	Range	Mean+ SD	SEM	t value df=38	P
Lippes	4 - 8	5.9 $\pm$ 1.210	0.271	—	—
TCu200	4 - 9	6.3 $\pm$ 1.525	0.341	0.9195	> 0.05
TCu380A	3 - 9	5.95 $\pm$ 1.669	0.373	0.1085	> 0.05

Table 11, shows the mean ESR 24 hours after IUCD insertion in the 3 groups. The difference was statistically insignificant ($P>0.05$).

Table 11: Comparison of the mean 24 hours post-insertion ESR in the three groups.

Group	Range	Mean+ SD	SEM	t value df=38	P
Lippes	4 - 7	5.95 $\pm$ 1.05	0.235	—	—
TCu200	4 - 8	5.95 $\pm$ 1.356	0.303	0.000	> 0.05
TCu380A	3 - 8	6.05 $\pm$ 1.504	0.336	0.2439	> 0.05

Table 12, shows the mean ESR 4 weeks after IUCD insertion.

The difference was statistically insignificant ($P > 0.05$).

Table 12 : Comparison of the mean 4 weeks post-insertion ESR in the three groups.

Group	Range	Mean $\pm$ SD	SEM	t value df = 38	P
Lippes	4 - 7	5.75 $\pm$ 0.910	0.203	—	—
Tcu 200	4 - 9	6.05 $\pm$ 1.538	0.344	0.7519	> 0.05
Tcu380A	3 - 9	6.05 $\pm$ 1.605	0.359	0.7282	> 0.05

SERUM C-REACTIVE PROTEIN

Table 13 shows the results of serum c-reactive protein levels in individual cases of Lippes loop users.

Table 14 shows the results of serum c-reactive protein levels in individual cases of Tcu 200 IUCD users.

Table 15 shows the results of serum c-reactive protein levels in individual cases of Tcu 380A IUCD users.

Table 13: Results of Serum c-reactive protein in Lippes IUCD users.

Case no.	Pre-insertion (mg / 100m L)	24h. Postinsertion (mg / 100m L)	4w. Postinsertion (mg / 100m L)
1	00.35	1.20	00.30
2	00.20	1.00	00.25
3	00.45	1.20	00.40
4	00.60	1.30	00.55
5	00.20	1.00	00.20
6	<0.20	0.80	<0.20
7	<0.20	0.90	<0.20
8	00.50	1.00	00.45
9	<0.20	0.85	<0.20
10	00.55	1.20	00.50
11	<0.20	0.95	<0.20
12	<0.20	0.80	00.20
13	00.40	1.20	00.35
14	00.20	1.00	00.20
15	<0.20	0.90	00.20
16	00.25	1.00	00.20
17	00.50	1.30	00.20
18	00.25	1.00	00.20
19	00.25	1.00	<0.20
20	<0.20	0.85	<0.20
Range	<0.20 - 0.60	0.80 - 1.30	<0.20 - 0.55
Mean	0.235	1.02	0.210
SD+	0.212	0.159	0.176
SEM	0.047	0.036	0.039

Table 14: Results of serum C _{reactive} protein in Tcu 200 IUCD users

Case no.	Pre - insertion (mg /100mL)	24h.post-insertion (mg /100mL)	4w.post-insertion (mg / 100mL)
1	00.20	1.20	00.20
2	00.25	1.20	00.20
3	<0.20	0.90	00.20
4	00.50	1.30	00.20
5	00.25	1.40	00.20
6	00.55	1.70	00.50
7	<0.20	0.95	<0.20
8	<0.20	1.00	<0.20
9	00.45	1.60	00.40
10	<0.20	0.85	00.20
11	00.20	1.35	<0.20
12	00.50	1.50	00.40
13	<0.20	1.20	<0.20
14	00.35	1.55	00.30
15	00.20	1.20	00.25
16	00.45	1.50	00.40
17	00.60	1.80	00.50
18	00.20	1.30	00.20
19	<0.20	0.80	<0.20
20	<0.20	1.30	<0.20
Range	<0.20 - 0.60	0.80 - 1.80	<0.20 - 0.50
Mean	0.235	1.28	0.208
SD_±	0.214	0.282	0.170
SEM	0.049	0.063	0.038

Table 15: Results of serum C- reactive protein in Tcu 380A IUCD users

Case no.	Pre-insertion (mg / 100mL)	24h.post-insertion (mg / 100mL)	4w.post-insertion (mg / 100mL)
1	0.20	1.40	0.20
2	0.30	1.60	0.20
3	0.25	1.40	0.20
4	0.30	1.60	0.30
5	0.20	1.40	0.20
6	<0.20	1.20	<0.20
7	0.40	1.70	0.30
8	<0.20	1.20	<0.20
9	0.40	1.65	0.40
10	0.45	1.60	0.30
11	0.50	1.80	0.55
12	<0.20	1.20	0.20
13	0.60	1.80	0.40
14	0.65	1.95	0.40
15	0.35	1.45	0.40
16	0.60	1.75	0.50
17	0.70	1.90	0.70
18	<0.20	1.30	<0.20
19	<0.20	1.20	<0.20
20	0.20	1.60	0.20
Range	<0.20 - 0.70	1.20 - 1.95	<0.20 - 0.70
Mean	0.305	1.54	0.273
SD±	0.233	0.242	0.193
SEM	0.052	0.054	0.043

Table 16 shows the range and mean serum CRP levels, before 24 hours and 4 weeks after application of Lippes IUCDs. The mean value of serum CRP was significantly higher 24 hours after IUCD insertion ($P < 0.001$), but not 4 weeks after insertion.

Table 17 shows the range and mean serum CRP levels, before 24 hours and 4 weeks after application of Tcu 200 IUCDs. The mean value of serum CRP was significantly higher 24 hours after IUCD insertion ($P < 0.001$), but not 4 weeks after insertion ($P > 0.05$).

Table 18 shows the range and mean serum CRP levels, before, 24 hours and 4 weeks after application of Tcu 380A IUCDs. The mean value of serum CRP was significantly higher 24 hours after IUCD insertion ($P < 0.001$) but not 4 weeks after insertion ($P > 0.05$).

Table 16: Serum CRP before, 24 hours and 4 weeks after Lippes IUCDs application.

Sample Data	Pre- insertion	24h. postinsertion	4w. postinsertion
Range (mg/100mL)	<0.20 - 0.60	0.80 - 1.30	<0.20 - 0.55
d' (mg/100mL)		0.7875	- 0.025
SD±		0.0972	0.1130
SEM		0.0217	0.0253
Paired t		36.2903	- 0.9890
P		< 0.001	> 0.05

df = 19

P < 0.001 highly significant

P > 0.05 insignificant

Table 17: Serum CRP before, 24 hours and 4 weeks after Tcu 200 IUCDs application

Sample Data	Pre-insertion	24h. post-insertion	4w. post-insertion
Range (mg/100mL)	< 0.20 - 0.60	0.80 - 1.80	< 0.20 - 0.50
d' (mg/100mL)		1.045	- 0.0275
SD±		0.1432	0.1159
SEM		0.0320	0.0259
Paired t		32.6563	- 1.0618
P		< 0.001	> 0.05

Table 18: Serum CRP before, 24 hours and 4 weeks after Tcu 380A IUCDs application.

Sample Data	Pre-insertion	24h. post-insertion	4w. Postinsertion
Range (mg/100mL)	< 0.20 - 0.70	1.20 - 1.95	< 0.20 - 0.70
d' (mg/100mL)		1.23	- 0.0325
SD±		0.0733	0.0977
SEM		0.0164	0.0218
Paired t		75.0747	- 1.4876
P		< 0.001	> 0.05

df = 19

P < 0.001 highly significant.

P > 0.05 insignificant.

Figure (2): Shows mean serum C-reactive protein level before, 24 hours and 4 weeks after insertion of Lippes, TCu 200 and TCu 380A IUCDs.

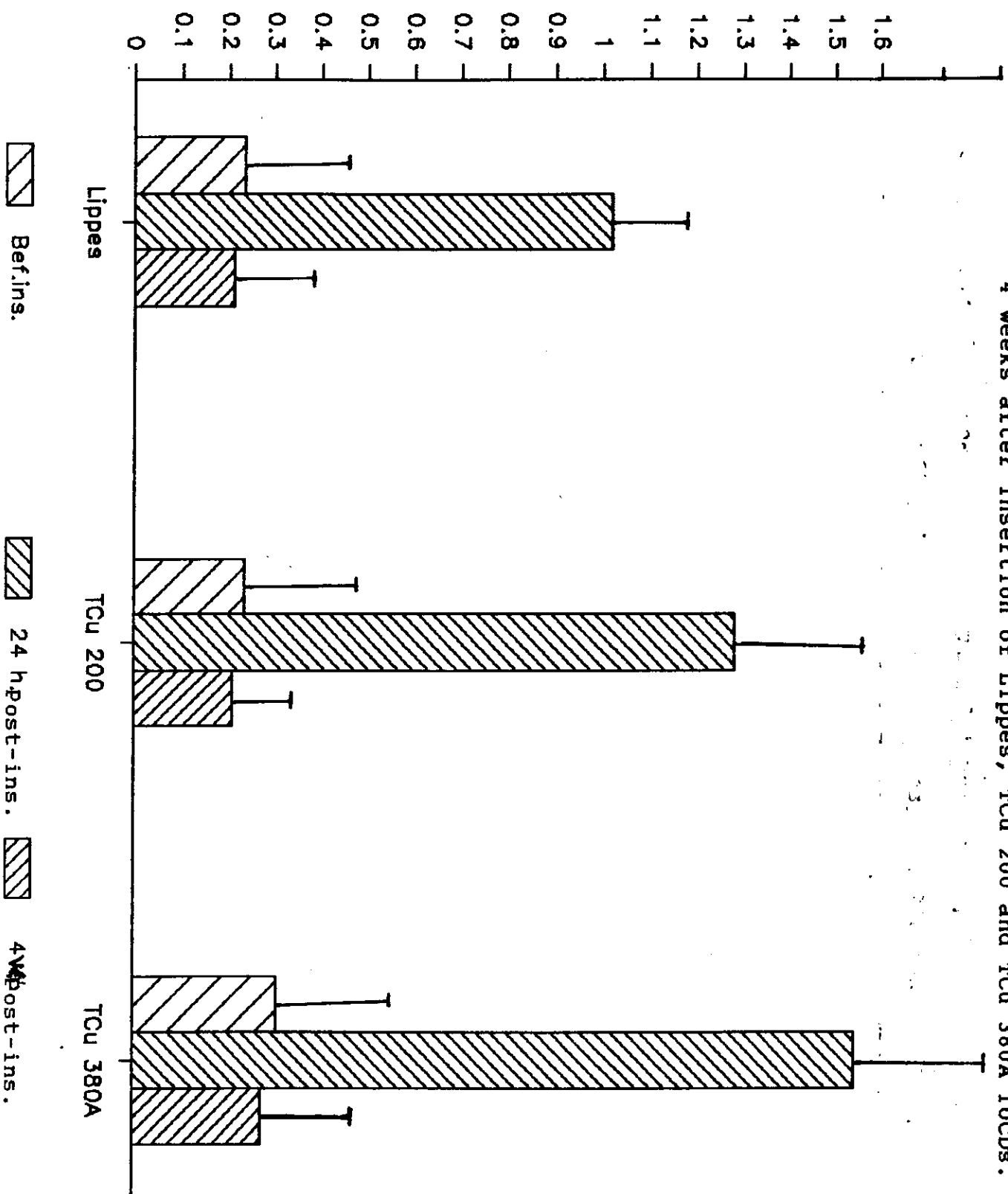


Table 19: shows the mean pre-insertion serum CRP in the 3 groups. The difference was statistically insignificant ($P > 0.05$).

Table 19: Comparison of the mean pre-insertion serum CRP in the three groups.

Group	Range	Mean $\pm$ SD	SEM	t value df = 38	P
Lippes	<0.20 - 0.60	0.235 $\pm$ 0.212	0.047	—	—
Tcu 200	<0.20 - 0.60	0.235 $\pm$ 0.214	0.049	0.000	>0.05
Tcu380A	<0.20 - 0.70	0.305 $\pm$ 0.233	0.052	1.000	>0.05

Table 20, shows the mean 24 hours post-insertion serum CRP in the 3 groups. The mean serum CRP was significantly higher with Tcu 200 and Tcu 380A compared to Lippes loop ($P < 0.002$ and $P < 0.001$) respectively.

Table 20: comparison of the mean 24 hours post-insertion serum CRP in the three groups.

Group	Range	Mean $\pm$ SD	SEM	t value df = 38	P
Lippes	0.80 - 1.30	1.02 $\pm$ 0.159	0.036	—	—
Tcu 200	0.80 - 1.80	1.28 $\pm$ 0.282	0.063	3.5616	<0.002
Tcu380A	1.20 - 1.95	1.54 $\pm$ 0.242	0.054	8.000	<0.001

Table 20a, shows the mean 24 hours post-insertion serum CRP in Tcu 200 and Tcu 380A users. The mean serum CRP was significantly higher with Tcu 380 (P < 0.01).

Table 20a: Comparison of the mean 24 hours post-insertion serum CRP in copper IUCD users.

Group	Range	Mean $\pm$ SD	SEM	t value df = 38	P
Tcu 200	0.80 - 1.80	1.28 $\pm$ 0.282	0.063	—	—
Tcu380A	1.20 - 1.95	1.54 $\pm$ 0.242	0.054	3.1325	< 0.01

Table 21, shows the mean 4 weeks post-insertion serum CRP in the 3 groups. The difference was statistically insignificant (P > 0.05).

Table 22: Comparison of the mean 4 weeks post-insertion serum CRP in the three groups.

Group	Range	Mean $\pm$ SD	SEM	t value df = 38	P
Lippes	<0.20 - 0.55	0.21 $\pm$ 0.176	0.039	—	—
Tcu 200	<0.20 - 0.50	0.208 $\pm$ 0.170	0.038	0.0370	>0.05
Tcu380A	<0.20 - 0.70	0.273 $\pm$ 0.193	0.043	1.0862	>0.05

SERUM alpha - 1 - ACID GLYCOPROTEIN (SEROMUCOID)

Table 22 shows the results of serum seromucoid levels in individual cases of Lippes loop users.

Table 23 shows the results of serum seromucoid levels in individual cases of Tcu 200 IUCD users.

Table 24 shows the results of serum seromucoid levels in the individual cases of Tcu 380A IUCD users.

Table 22: Results of serum seromucoid in Lippes IUCD users.

Case no.	Pre-insertion (mg / 100mL)	24h. Post-insertion (mg / 100mL)	4w. post-insertion (mg / 100mL)
1	085.19	085.01	080.09
2	086.20	084.72	090.17
3	074.16	072.14	072.18
4	100.05	100.00	105.30
5	090.13	087.27	088.37
6	078.76	075.60	080.12
7	093.06	095.04	090.29
8	095.14	092.12	095.42
9	070.52	070.61	071.00
10	100.01	100.75	098.47
11	088.25	084.17	085.12
12	089.73	090.12	091.00
13	070.12	070.32	072.17
14	076.72	075.36	078.07
15	104.75	105.09	103.22
16	079.15	075.10	070.15
17	089.29	090.32	095.11
18	099.15	097.28	100.00
19	080.14	080.51	082.40
20	070.01	070.00	071.14
Range	70.01 - 104.75	70.00 - 105.09	70.15 - 105.30
Mean	86.027	85.077	85.990
SD±	10.777	11.125	11.434
SEM	02.410	02.488	02.557

Table 23: Results of serum seromuroid in Tcu 200 IUCD users.

Case no.	Pre-insertion (mg / 100mL)	24h. post-insertion (mg / 100mL)	4w. post-insertion (mg / 100mL)
1	065.63	066.50	063.14
2	070.78	068.09	070.10
3	090.50	093.50	095.21
4	085.03	083.43	084.12
5	100.02	098.04	100.00
6	094.97	093.50	090.13
7	072.25	075.14	072.10
8	087.33	085.26	086.12
9	105.20	103.10	106.04
10	073.33	073.50	071.35
11	065.43	066.42	070.30
12	066.19	067.29	065.64
13	097.52	095.15	093.10
14	084.56	085.00	080.13
15	089.15	100.02	102.11
16	090.01	088.33	080.05
17	085.56	084.06	079.15
18	070.12	069.33	065.70
19	076.34	075.30	080.15
20	080.15	081.09	090.23
Range	65.43 - 105.20	66.42 - 103.10	63.14 - 106.04
Mean	82.504	82.603	82.244
SD+	12.089	12.013	12.888
SEM	02.703	02.686	02.882

Table 24: Results of serum seromucoid in Tcu 380A IUCD users.

Case no.	Pre-insertion (mg / 100mL)	24h. post-insertion (mg / 100mL)	4w. post-insertion (mg / 100mL)
1	080.30	083.09	081.04
2	085.40	080.19	086.20
3	090.14	088.12	085.07
4	091.12	095.07	093.13
5	100.13	096.16	099.17
6	104.02	105.73	100.97
7	077.70	075.65	076.12
8	080.18	080.00	083.70
9	083.12	083.00	080.15
10	105.02	104.15	106.05
11	085.03	084.04	085.00
12	100.04	095.12	096.13
13	086.05	088.10	087.09
14	076.44	075.40	073.12
15	089.13	090.05	095.14
16	073.22	075.16	070.10
17	094.53	090.12	095.71
18	085.12	083.10	086.19
19	084.75	080.60	077.79
20	090.17	095.14	095.00
Range	73.22 - 105.02	75.16 - 105.73	70.10 - 106.05
Mean	88.081	87.400	87.644
SD _±	09.008	09.002	09.757
SEM	02.014	02.013	02.182

Table 25 shows the range and mean serum seromucoid levels before, 24 hours and 4 weeks after application of Lippes IUCDs. There is a significant increase after 24 hours ($P < 0.02$). The changes became statistically insignificant 4 weeks after application ($P > 0.05$).

Table 26 shows the range and mean serum seromucoid levels before, 24 hours and 4 weeks after application of Tcu 200 IUCDs. The difference was statistically insignificant ($P > 0.05$).

Table 27 shows the range and mean serum seromucoid levels before, 24 hours and 4 weeks after application of Tcu 380A IUCDs. The difference was statistically insignificant ($P > 0.05$).

Table 25: Serum seromucoid before, 24 hours and 4 weeks after Lippes IUCDs application.

Sample Data	Pre-insertion	24h. post-insertion	4w. post-insertion
Range (mg /100mL)	70.01 - 104.75	70 - 105.09	70.15 - 105.30
d' (mg/100mL)		- 0.95	- 0.037
SD±		1.7758	3.4814
SEM		0.3971	0.7785
Paired t		-2.3923	-0.0475
P		< 0.02	> 0.05

df = 19

P < 0.02 Significant increase

p > 0.05 insignificant

Table 26: Serum seromucoid before, 24 hours and 4 weeks after Tcu 200 IUCDs application.

Sample Data	Pre-insertion	24h. post-insertion	4w. post-insertion
Range (mg /100mL)	65.43 - 105.20	66.42 - 103.10	63.14 - 106.04
d' (mg/100mL)		0.099	- 0.26
SD±		3.0464	5.4529
SEM		0.6812	1.2193
Paired t		0.1453	- 0.2132
P		> 0.05	> 0.05

df = 19

P > 0.05 insignificant

Table 27: Serum seromucoid before, 24 hours and 4 weeks after Tcu 380A IUCDs application.

Sample Data	Pre-insertion	24h. Post-insertion	4w. Post-insertion
Range (mg / 100mL)	73.22 - 105.02	75.16 - 105.73	70.10 - 106.05
d' (mg/100mL)		- 0.681	- 0.437
SD±		2.9873	3.3219
SEM		0.6680	0.7428
Paired t		- 1.0195	- 0.5883
P		> 0.05	> 0.05

df = 19

P > 0.05 insignificant

Figure (3): Shows mean serum seromucoid level before, 24 hours and 4 weeks after insertion of Lippes, TCU 200 and TCU 380A IUCDs.

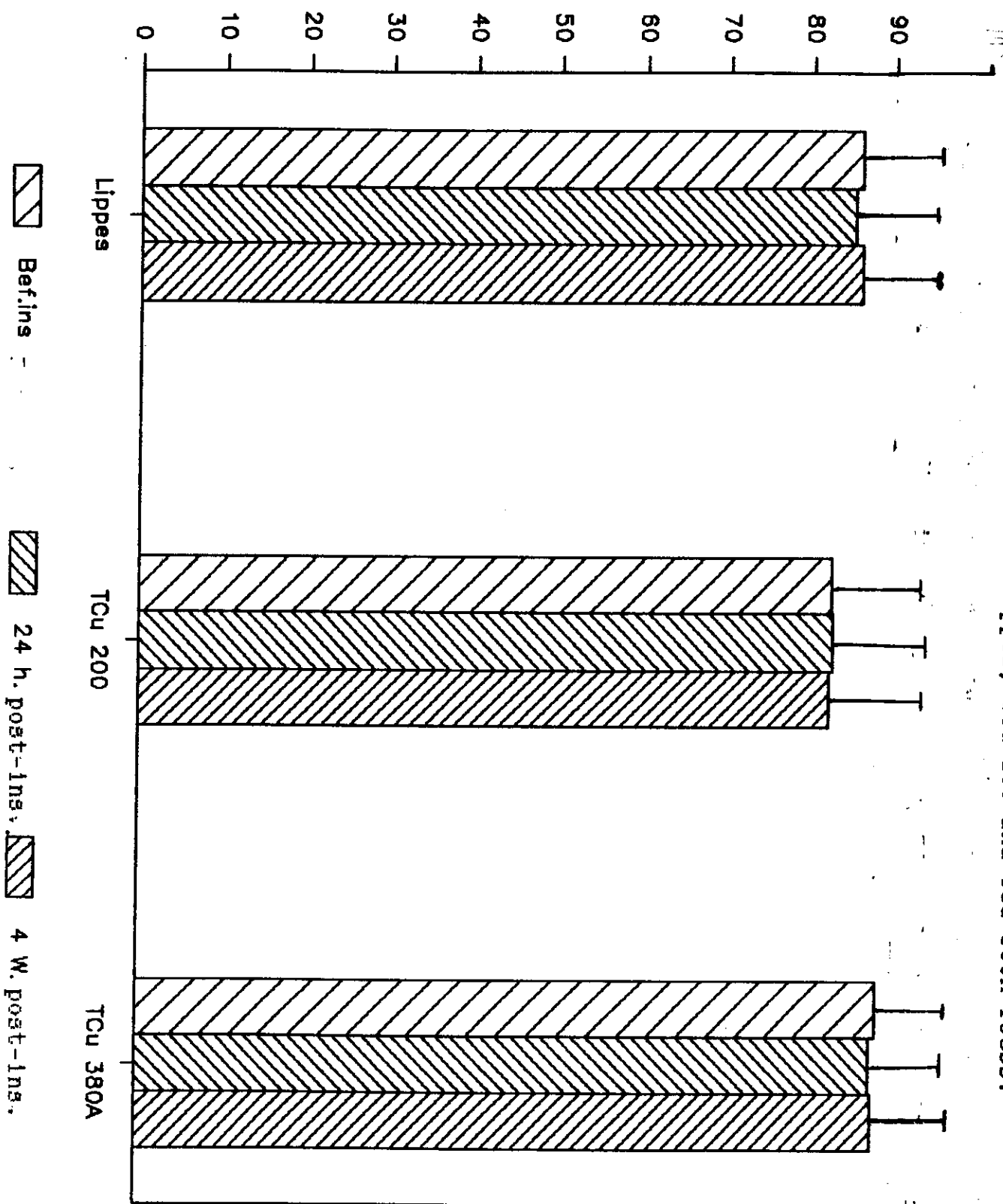


Table 28, shows the mean Pre-insertion serum seromucoid in the 3 groups. The difference was statistically insignificant ($P > 0.05$).

Tadble 28: Comparison of the mean pre-insertion serum seromucoid in the three groups.

Group	Range	Mean $\pm$ SD	SEM	t value df = 38	P
Lippes	70.01 - 104.75	86.027 $\pm$ 10.777	2.410	—	—
Tcu 200	65.43 - 105.20	82.504 $\pm$ 12.089	2.703	0.9729	> 0.05
Tcu 380A	73.22 - 105.02	88.081 $\pm$ 09.008	2.014	0.6539	> 0.05

Table 29, shows the mean 24 hours post-insertion serum Seromucoid in the 3 groups. The difference was statistically insignificant ($P > 0.05$).

Table 29: Comparison of the mean 24 hours post-insertion serum seromucoid in the three groups.

Group	Range	Mean $\pm$ SD	SEM	t value df = 38	P
Lippes	70.00 - 105.09	85.077 $\pm$ 11.125	2.488	—	—
Tcu 200	66.42 - 103.10	82.603 $\pm$ 12.013	2.686	0.6758	> 0.05
Tcu 380A	75.16 - 105.73	87.400 $\pm$ 09.002	2.013	0.7259	> 0.05

Table 30, shows the mean 4 weeks post-insertion serum seromucoid in the 3 groups. The difference was statistically insignificant ($P > 0.05$).

Table 30: Comparison of the mean 4 weeks post-insertion seromucoid in the three groups.

Group	Range	Mean $\pm$ SD	SEM	t value df = 38	P
Lippes	70.15 - 105.30	85.990 $\pm$ 11.434	2.557	—	—
Tcu 200	63.14 - 106.04	82.244 $\pm$ 12.888	2.882	0.9722	> 0.05
Tcu 380A	70.10 - 106.05	87.644 $\pm$ 09.757	2.182	0.4921	> 0.05