

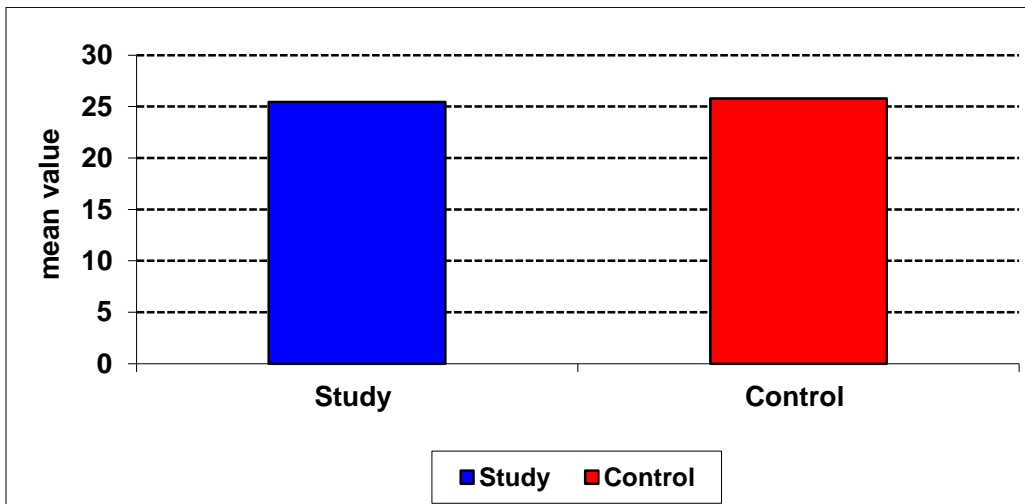
Results

This randomized clinical trial was conducted at Komhamada Maternity Hosital to assess the effect of intravenous tranexamic acid on intra-and post-operative blood loss in elective Cesarean section. A total 100 women were included. All included women were planned for elective Cesarean section(CS)for variable indications.

Table(5):Shows the age of the patients. There were no significant difference between study control groups

Age	Study	Control	p. value
Range	18-33	17-34	0.731
Mean +SD	25.46+4.79	25.78+4.46	NS

Figure (5):Show age in study and control groups.



Table(6):Shows the mean gestational age in patients.

There were no significant difference between study control groups

Gestational age	Study	Control	p. value
Range	37-41	37-41	0.315
Mean +SD	39.46 +4.25	39.70+7.17	NS

Figure (6):Show the gestational age in study and control groups.

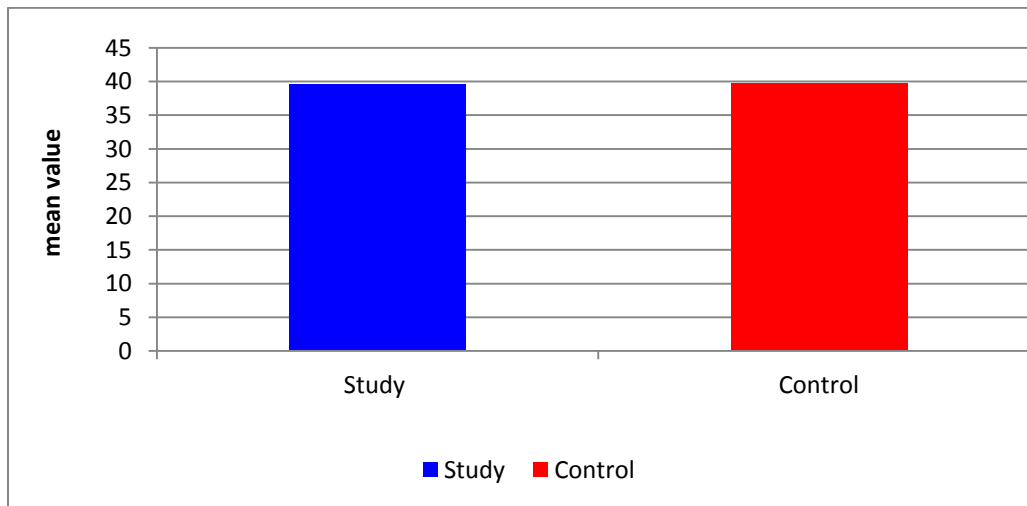


Table (7):Shows indications of CS.in all patients.

Indication	N	%
Contracted pelvis	14	14
Malpresentation	24	24
Non- reassuring fetal status(CTG)	25	25
Infertility and bad obstetric history	19	19
Elderly primigravidae	18	18

Figure (7):Shows indication of CS in study and control groups

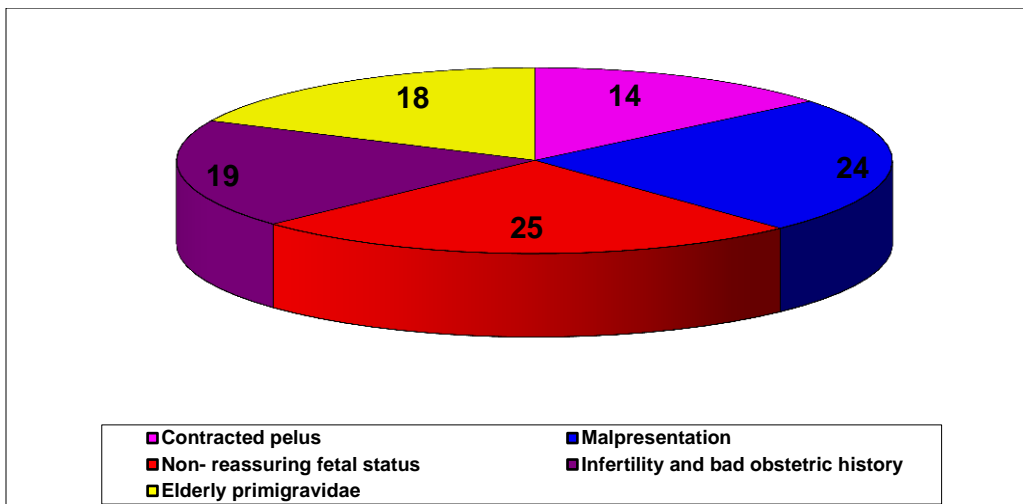


Table (8) :Shows preoperative vital signs and laboratory investigation in both groups.

There were no statistically significant differences between women of both groups concerning initial vital signs and laboratory investigation.

		Study group	Control group	P.value
<i>Pulse rate</i>	<i>Range</i>	70-92	65-92	>0.05
	<i>Mean+SD</i>	80.4+7.11	77.56+7.65	NS
<i>Systolic blood pressure</i>	<i>Range</i>	105-130	100-125	>0.05
	<i>Mean+SD</i>	116.2+9.36	115.17+4.48	NS
<i>Diastolic blood pressure</i>	<i>Range</i>	65-80	65-85	>0.05
	<i>Mean+SD</i>	72.31+5.33	71.32+4.58	NS
<i>Respiratory rate</i>	<i>Range</i>	13-23	12-22	>0.05
	<i>Mean+SD</i>	18.2+2.69	17.13+2.62	NS
<i>Hemoglobin</i>	<i>Range</i>	10.3-12.9	10.4-13.2	>0.05
	<i>Mean+SD</i>	11.22+0.93	11.25+0.66	NS
<i>Haematocrit</i>	<i>Range</i>	28.1-36.2	27.9-37.2	>0.05
	<i>Mean+SD</i>	32.3+2.11	31.52+2.36	NS
<i>Serum creatinine</i>	<i>Range</i>	0.7-1.3	0.6-1.2	>0.05
	<i>Mean+SD</i>	0.83+0.16	0.82+0.15	NS
<i>Serum urea</i>	<i>Range</i>	20-38	21-40	>0.05
	<i>Mean+SD</i>	26.3+4.55	30.22+5.29	NS
<i>Serum AST</i>	<i>Range</i>	10-40	9-39	>0.05
	<i>Mean+SD</i>	17.5+7.5	21.6+8.2	NS
<i>Serum ALT</i>	<i>Range</i>	9-31	9-40	>0.05
	<i>Mean+SD</i>	16.5+7.2	17.6+7.36	NS

Table(9):Shows post operative vital signs.There were no statistically significant differences between women of both groups .

			Study group	Control group	p. value
Pulse rate	1 hour	Range	66-90	65-90	>0.05
		Mean+SD	79.33+6.37	77.9+7.35	NS
	2 hour	Range	68-90	65-92	>0.05
		Mean+SD	79.17+5.74	78.87+7.18	NS
Systolic blood pressure	1 hour	Range	100-125	100-125	>0.05
		Mean+SD	113.22+6.66	113.87+6.95	NS
	2 hour	Range	100-125	100-125	>0.05
		Mean+SD	115.53+6.32	118.23+4.96	NS
Diastolic blood pressure	1 hour	Range	65-80	65-85	>0.05
		Mean+SD	71.5+5.41	71.5+5.56	NS
	2 hour	Range	65-80	65-85	>0.05
		Mean+SD	73.53+5.16	73.53+5.15	NS
Respiratory rate	1 hour	Range	12-22	12-22	>0.05
		Mean+SD	17.33+2.64	17.13+2.85	NS
	2hour	Range	12-18	11-20	>0.05
		Mean+SD	2 hour	15.37-2.51	NS

Table(10) :Shows postoperative hemoglobin concentration and haematocrit value. There were no statistically significant differences between women of both groups

		Study group	Control group	p. value
Hemoglobin	Range	10.2-12.8	10.1-13	>0.05
	Mean+SD	11.29+0.79	11.09-0.73	NS
Hemoglobin drop	Range	0.1-0.6	0.1-1.2	>0.05
	Mean+SD	0.15+0.11	0.17+.1	NS
Haematocrit	Range	21-35	24.8-35.4	>0.05
	Mean+SD	30.23+3.39	29.92+2.87	NS
Haematocrit drop	Range	0.1-7.8	0.8-8.8	>0.05
	Mean+SD	2.17+1.5	2.87+1.05	NS

Figure (8):Shows post operative hemoglobin concentration in study and control groups.

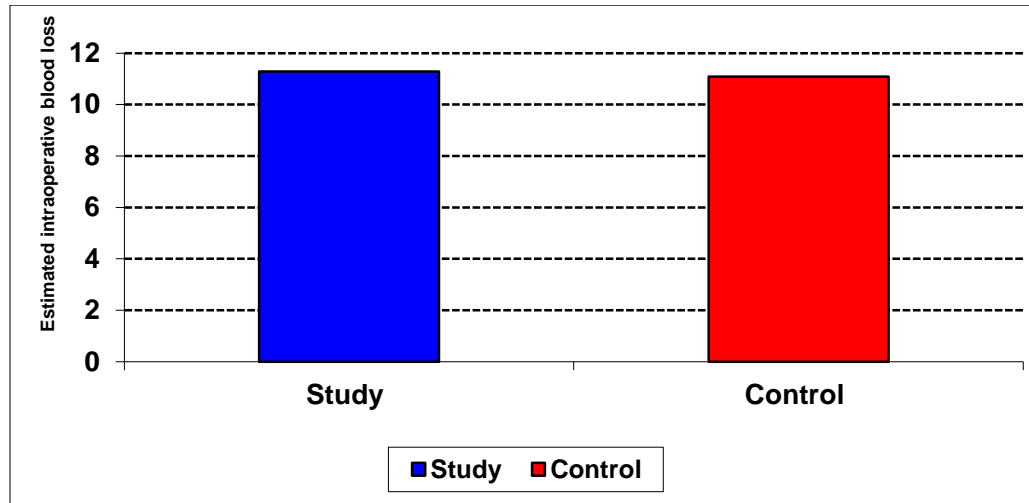
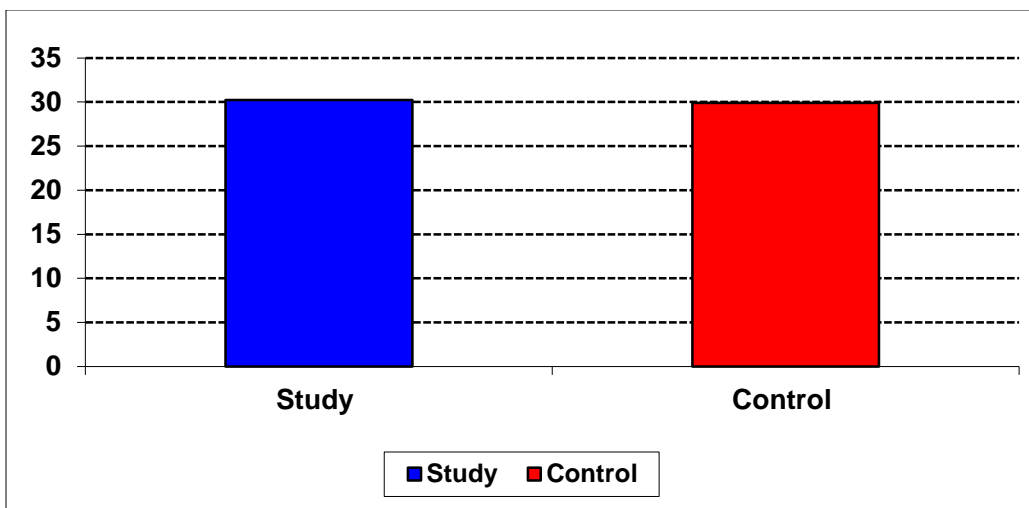


Figure (9):Shows post operative haematocrit value in study and control groups.



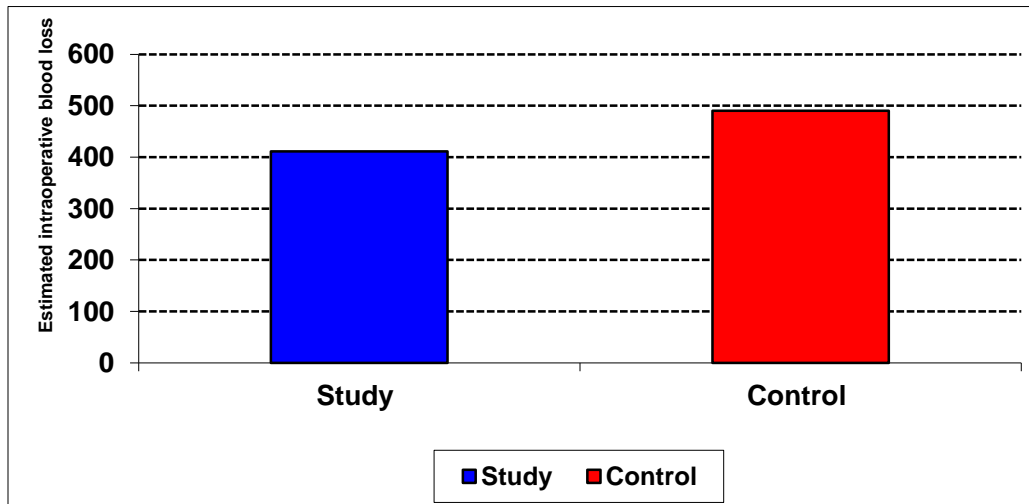
Table(11) :Shows postoperative blood chemistry (serum levels of creatinine, urea, AST and ALT) There were no significant differences between women of both groups concerning these parameters .

		Study group	Control group	p. value
Serum creatinine	Range	0.6-1.3	0.6-1.3	>0.05
	Mean+SD	93+0.19	0.92+0.18	NS
Serum urea	Range	20-39	23+44	>0.05
	Mean+SD	28.4+5.24	31.22+6.76	NS
Serum AST	Range	10-40	9-40	>0.05
	Mean+SD	18.23+7.6	21.23+9.23	NS
Serum ALT	Range	9-31	12-40	>0.05
	Mean+SD	18.11+6.32	20.66+8.32	NS

Table(12):Shows intraoperative blood loss, there were statistically significant difference between study and control groups.

		Study group	Control group	p. value
Estimated intraoperative blood loss	Range	380-560	410-630	<0.05 S
	Mean+SD	411.25+36.2	490.25+44.8	

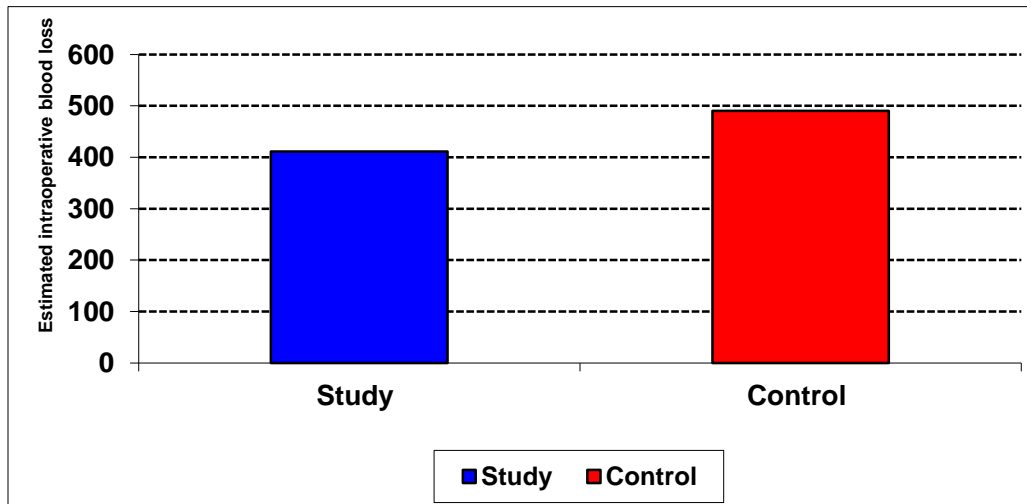
Figure(10):Shows intra operative blood loss in study groups.



Table(13):Shows postoperative blood loss in study and control groups up to two h ,there were significant defferance between study and control groups.

		Study group	Control group	p. value
Estimated postoperative blood loss	Range	30-215	35-260	<0.05 S
	Mean+SD	91.63+10.25	113.5+13.52	

Figure (11): Shows difference between study groups concerning postoperative blood loss.



Table(14): Shows total blood loss in study and control groups. There were significant between study and control groups.

		Study group	Control group	p. value
Estimated total blood loss	Range	425-750	450-860	<0.05 S
	Mean+SD	536.6+50.25	633.52+71.25	

Figure (12): Shows difference between study and control groups in total blood loss.

