

BASELINE CHARACTERISTICS

Age Distribution of Participants

AGE RANGE	FREQUENCY
20-24 years	17
25-29 years	37
30-34 years	23
35-39 years	21
≥ 40 years	1

Association of demographic characteristics between study groups

Demographic Parameter	Group	N	Mean \pm Standard Deviation	Minimum	Maximum	F-test	p-value
Age (years)	Group A	33	30.9 \pm 5.1	21	40	1.184	0.310
	Group B	33	29.3 \pm 4.8	22	37		
	Group C	33	29.2 \pm 4.8	22	39		
	Total	99	29.8 \pm 4.9	21	40		
Weight (kg)	Group A	33	74.88 \pm 9.04	60.0	94.8	0.288	0.751
	Group B	33	73.58 \pm 6.53	62.0	87.0		
	Group C	33	73.82 \pm 6.39	60.0	84.0		
	Total	99	74.09 \pm 7.37	60.0	94.8		
Height (m)	Group A	33	1.608 \pm 0.061	1.45	1.70	0.285	0.752
	Group B	33	1.611 \pm 0.051	1.50	1.71		
	Group C	33	1.618 \pm 0.054	1.51	1.70		
	Total	99	1.612 \pm 0.055	1.45	1.71		
Body Mass Index (kg/m ²)	Group A	33	28.93 \pm 2.81	22.9	34.4	1.185	0.310
	Group B	33	28.31 \pm 1.40	25.2	31.2		
	Group C	33	28.19 \pm 1.89	25.0	34.1		
	Total	99	28.48 \pm 2.12	22.9	34.4		
Parity	Group A	33	1.5 \pm 0.87	0	4	0.367	0.694
	Group B	33	1.3 \pm 0.78	0	3		
	Group C	33	1.3 \pm 0.98	0	3		
	Total	99	1.4 \pm 0.87	0	4		
Duration of Surgery (minutes)	Group A	33	62.0 \pm 9.76	43	80	1.800	0.171
	Group B	33	59.4 \pm 9.21	40	82		
	Group C	33	57.2 \pm 11.75	40	88		
	Total	99	59.5 \pm 10.35	40	88		
Booking Systolic Blood Pressure (mmHg)	Group A	33	108.9 \pm 8.69	90	124	2.124	0.125
	Group B	33	113.6 \pm 9.22	91	130		
	Group C	33	111.2 \pm 9.66	96	131		
	Total	99	111.3 \pm 9.30	90	131		
Booking Diastolic Blood Pressure (mmHg)	Group A	33	67.7 \pm 7.77	50	83	0.713	0.493
	Group B	33	68.8 \pm 5.97	53	83		
	Group C	33	69.6 \pm 6.01	59	82		
	Total	99	68.7 \pm 6.62	50	83		

Key: kg – kilograms; m – metres; kg/m² – kilogram per square metre, mmHg – millimetres of mercury

Study groups in relation to educational level of participants

Educational Level	Group A	Group B	Group C	Total	Pearson	<i>p</i> -value
	Count (% within group)				χ^2 value (df)	
None	3 (9.1)	0 (0.0)	1 (3.0)	4 (4.0)	9.529 (6)	0.146
Primary	0 (0.0)	4 (12.1)	6 (18.2)	10 (10.1)		
Secondary	17 (51.5)	17 (51.5)	14 (42.4)	48 (48.5)		
Tertiary	13 (39.4)	12 (36.4)	12 (36.4)	37 (37.4)		
Total	33 (100.0)	33 (100.0)	33 (100.0)	99 (100.0)		

Comparison of study groups with respect to previous caesarean section

Previous Caesarean Section	Group A	Group B	Group C	Total	Pearson	<i>p</i> -value
	Count (% within group)				χ^2 value (df)	
No	11 (33.3)	18 (54.5)	10 (30.3)	39 (39.4)	4.823 (2)	0.090
Yes	22 (66.7)	15 (45.5)	23 (69.7)	60 (60.6)		
Total	33 (100.0)	33 (100.0)	33 (100.0)	99 (100.0)		

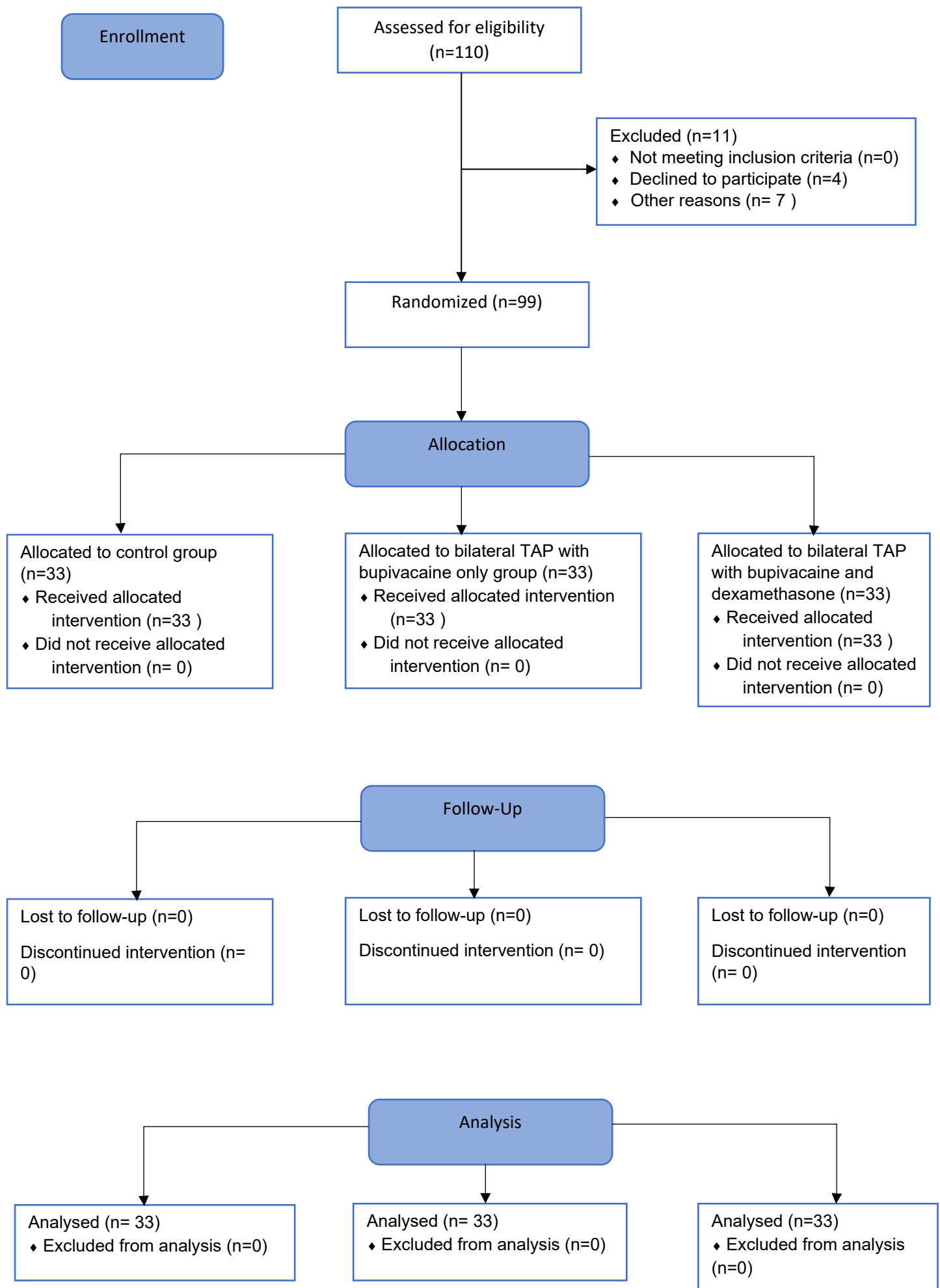
Parity of participants

Parity	Frequency
Para 0	15
Para 1	44
Para 2	31
Para 3	8
Para 4	1

Study groups in relation to anaesthesia provider

Study groups in relation to anaesthesia provider						
Anaesthesia Provider Grade	Group A	Group B	Group C	Total	Pearson χ^2 value (df)	<i>p</i> -value
	Count (% within Group)					
CRA	12 (36.4)	8 (24.2)	17 (51.5)	37 (37.4)	9.188 (6)	0.163
MO	7 (21.2)	7 (21.2)	2 (6.1)	16 (16.2)		
Resident	7 (21.2)	12 (36.4)	6 (18.2)	25 (25.3)		
Specialist	7 (21.2)	6 (18.2)	8 (24.2)	21 (21.2)		
Total	33 (100)	33 (100)	33 (100)	99 (100)		

CONSORT DIAGRAM



ADVERSE EVENTS

No adverse events were recorded during the conduct of the study.

PRIMARY OUTCOME MEASURE – DURATION OF ANALGESIA

Mean time to request for first analgesic

	N	Mean \pm Standard Deviation (minutes)	Minimum (minutes)	Maximum (minutes)	F-test	p-value
Group A	27	485.2 \pm 143.03	300	870	35.458	<0.0001
Group B	32	327.5 \pm 98.69	125	670		
Group C	33	256.5 \pm 72.33	135	395		
Total	92	348.3 \pm 140.60	125	870		

Post hoc multiple comparison testing for mean time to request for first analgesic

Group Comparison	Mean Difference	95% Confidence Interval for Difference		p-value
		Lower Bound	Upper Bound	
Group A v Group B	157.685	91.62	223.75	<0.0001
Group A v Group C	228.670	163.07	294.27	<0.0001
Group B v Group C	70.985	8.26	133.71	0.023

SECONDARY OUTCOME MEASURE – PAIN SCORES

NRS pain scores at rest at observation time points

Time point	Group	N	Mean ± Standard Deviation	Minimum	Maximum	F-test	p-value
0 hours	Group A	33	0.0 ± 0.00	0	0	-	-
	Group B	33	0.0 ± 0.00	0	0		
	Group C	33	0.0 ± 0.00	0	0		
	Total	99	0.0 ± 0.00	0	0		
2 hours	Group A	33	1.1 ± 0.81	0	3	3.119	0.049
	Group B	33	1.2 ± 1.02	0	3		
	Group C	33	1.7 ± 1.11	0	3		
	Total	99	1.3 ± 1.01	0	3		
6 hours	Group A	33	3.4 ± 1.23	0	6	10.330	<0.0001
	Group B	33	3.6 ± 1.15	2	6		
	Group C	33	4.9 ± 1.85	2	8		
	Total	99	4.0 ± 1.58	0	8		
12 hours	Group A	33	2.6 ± 1.19	1	6	32.349	<0.0001
	Group B	33	3.4 ± 1.30	1	6		
	Group C	33	4.9 ± 0.98	3	6		
	Total	99	3.7 ± 1.49	1	6		
24 hours	Group A	33	1.9 ± 1.30	0	4	1.818	0.168
	Group B	33	2.2 ± 1.17	0	4		
	Group C	33	2.4 ± 1.12	0	4		
	Total	99	2.2 ± 1.21	0	4		

Mean 24-hour NRS pain score at rest

Groups	Mean ± SD	Standard Error	N	95% Confidence Interval		F-test	p-value
				Lower Bound	Upper Bound		
Group A	1.8 ± 1.56	0.09	33	1.620	1.980	30.347	<0.0001
Group B	2.1 ± 1.69	0.09	33	1.905	2.264		
Group C	2.8 ± 2.22	0.09	33	2.590	2.949		

Key: SD – Standard Deviation

Mean NRS pain scores on coughing at observation time points

Time point	Group	N	Mean ± Standard Deviation	Minimum	Maximum	F-test	p-value
0 hours	Group A	33	0.0 ± 0.00	0	0	-	-
	Group B	33	0.0 ± 0.00	0	0		
	Group C	33	0.0 ± 0.00	0	0		
	Total	99	0.0 ± 0.00	0	0		
2 hours	Group A	33	2.6 ± 1.69	0	5	5.129	0.008
	Group B	33	2.5 ± 1.20	0	5		
	Group C	33	3.5 ± 0.97	2	5		
	Total	99	2.9 ± 1.38	0	5		
6 hours	Group A	33	4.3 ± 1.86	1	7	7.145	0.001
	Group B	33	4.6 ± 1.06	2	6		
	Group C	33	5.7 ± 1.79	2	8		
	Total	99	4.9 ± 1.71	1	8		
12 hours	Group A	33	3.6 ± 1.35	1	6	8.476	<0.0001
	Group B	33	4.0 ± 1.20	1	7		
	Group C	33	4.8 ± 1.17	2	7		
	Total	99	4.1 ± 1.33	1	7		
24 hours	Group A	33	3.3 ± 1.73	1	6	0.401	0.671
	Group B	33	3.6 ± 1.95	1	7		
	Group C	33	3.8 ± 2.15	1	8		
	Total	99	3.6 ± 1.94	1	8		

Mean 24-hour NRS pain scores on coughing

Groups	Mean ± SD	Standard Error	N	95% Confidence Interval		F-test	p-value
				Lower Bound	Upper Bound		
Group A	2.8 ± 2.08	0.111	33	2.538	2.977	13.768	<0.0001
Group B	2.9 ± 2.03	0.111	33	2.714	3.153		
Group C	3.5 ± 2.39	0.111	33	3.320	3.759		

Key: SD – Standard Deviation

SECONDARY OUTCOME MEASURE – OPIOID CONSUMPTION

Mean 24-hour opioid (pethidine) consumption of study participants

Group	N	Mean ± Standard Deviation (mg)	Minimum (mg)	Maximum (mg)	F-test	p-value
Group A	33	113.6 ± 81.58	0	300	144.188	<0.0001
Group B	33	269.1 ± 64.44	0	300		
Group C	33	380.6 ± 39.21	300	400		
Total	99	254.4 ± 127.04	0	400		

Key: mg - milligrams