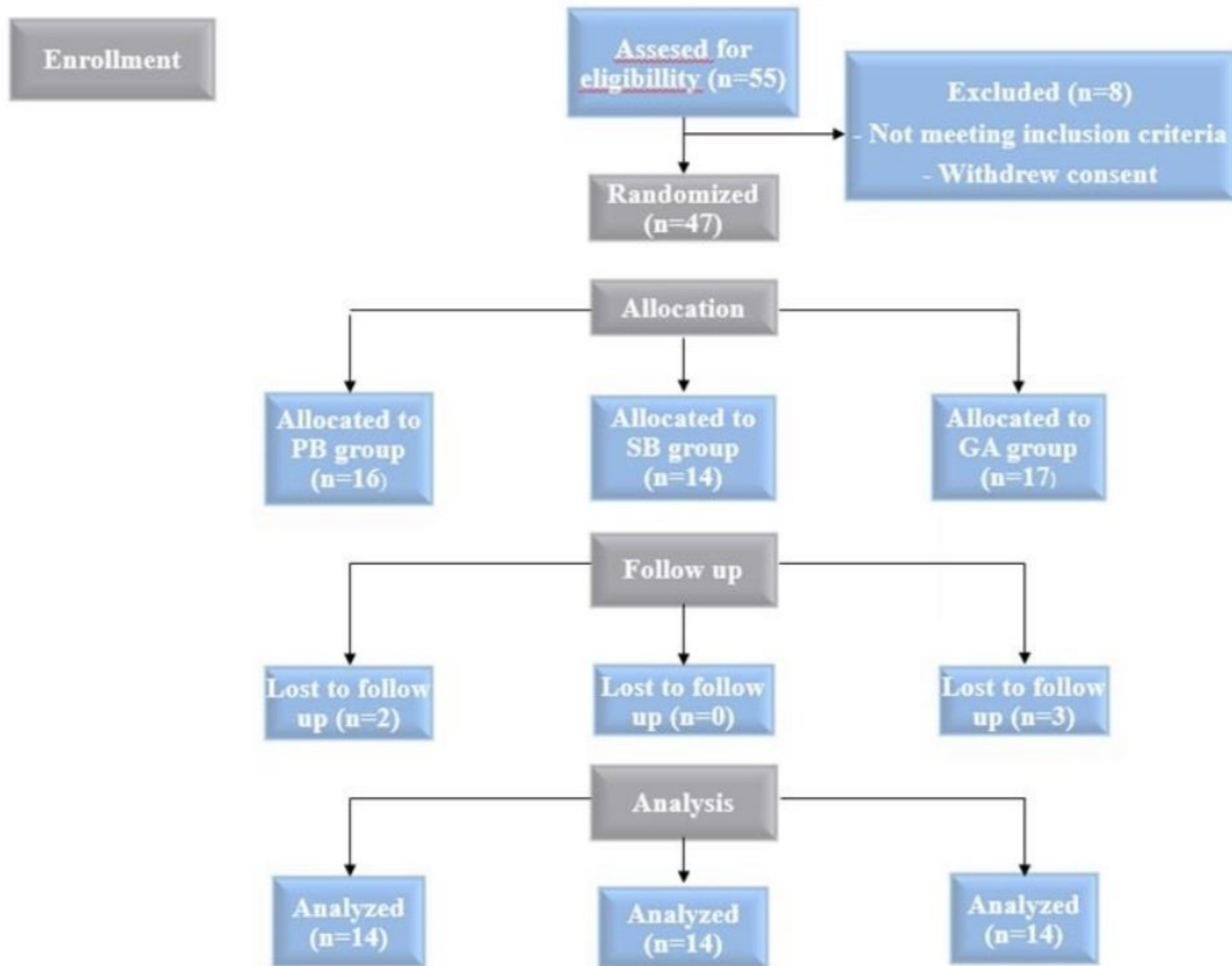




Consort Flow diagram

Table (7) Number and percentage of patients requiring ondasterone

		GA		PB		SB		P value
		Count	%	Count	%	Count	%	
Patients who required Ondansetron	Yes	8	57.1%	2	14.3%	2	14.3%	0.025
	No	6	42.9%	12	85.7%	12	85.7%	

Data are expressed as numbers and percentage. P-value < 0.05 was considered statistically significant.

Table (8) PONV score in the 24 hrs postoperative:

	GA		PB		SB		P value
	Mean	SD	Mean	SD	Mean	SD	
PONV score 0 hr	0.29	0.47	0.00	0.00	0.00	0.00	0.010
PONV score 1 hr	0.86	0.53	0.07	0.27	0.07	0.27	< 0.001
PONV score 2 hrs	1.14	0.53	0.14	0.36	0.07	0.27	< 0.001
PONV score 4 hrs	1.14	0.53	0.36	0.63	0.21	0.43	< 0.001
PONV score 6 hrs	1.07	0.27	0.36	0.63	0.29	0.61	< 0.001
PONV score 8 hrs	1.07	0.62	0.29	0.47	0.21	0.58	< 0.001
PONV score 12 hrs	0.36	0.50	0.07	0.27	0.07	0.27	0.065
PONV score 24 hrs	0.14	0.36	0.00	0.00	0.00	0.00	0.128

Data are expressed as mean and standard deviation. P-value < 0.05 was considered statistically significant.

Table (9) Post hoc pair wise comparisons (P value between each 2 groups)

	GA versus PB	GA versus SB	PB versus SB
PONV score 0 hr	0.024	0.024	1.000
PONV score 1 hr	< 0.001	< 0.001	1.000
PONV score 2 hrs	< 0.001	< 0.001	1.000
PONV score 4 hrs	0.001	< 0.001	1.000
PONV score 6 hrs	0.003	0.001	1.000
PONV score 8 hrs	0.002	0.001	1.000

P-value < 0.05 was considered statistically significant.

Table 10: Time of readiness for surgery and total volume of LA required

	PB		SB		P value
	Mean	Standard Deviation	Mean	Standard Deviation	
Time of readiness for surgery (min)	4.29	0.70	3.18	0.61	< 0.001
Total volume of LA required (ml)	7.79	1.31	5.71	1.44	< 0.001

Data are expressed as mean and standard deviation. P-value < 0.05 was considered statistically significant.

Table 11: Need for supplementary block and complications

		PB		SB		P value
		Count	%	Count	%	
Need for supplementary block	yes	4	28.6%	3	21.4%	1
	no	10	71.4%	11	78.6%	
Complications (subconjunctival hemorrhage)	yes	3	21.4%	5	35.7%	0.678
	no	11	78.6%	9	64.3%	

Data are expressed as numbers and percentage. P-value < 0.05 was considered statistically significant.

Table 12: Need for intraoperative Fentanyl and intraoperative atropine

		GA		PB		SB		P value
		Count	%	Count	%	Count	%	
Need for intraoperative Fentanyl (mic)	Yes	8	57.1%	1	7.1%	1	7.1%	0.002
	No	6	42.9%	13	92.9%	13	92.9%	
Need for intraoperative atropine	Yes	9	64.3%	1	7.1%	1	7.1%	< 0.001
	No	5	35.7%	13	92.9%	13	92.9%	

Data are expressed as numbers and percentage. P-value < 0.05 was considered statistically significant.

Table (13) Serum cortisol and glucose; baseline, 30 mins from start of operation and at end of surgery

	GA		PB		SB		P value
	Mean	SD	Mean	SD	Mean	SD	
Serum Cortisol Baseline (before sedation) (nmol/l)	349.57	66.88	368.43	53.27	372.14	42.46	0.515
Serum Cortisol 30 mins from start of surgery (nmol/l)	596.07	70.74	443.57	46.55	447.50	38.87	< 0.001
Serum Cortisol At end of surgery (nmol/l)	709.29	57.97	449.50	35.48	434.71	42.39	< 0.001
Serum Glucose Baseline	4.76	0.28	4.62	0.27	4.71	0.23	0.349
Serum Glucose 30 mins from start of surgery	6.25	0.37	5.01	0.22	5.10	0.24	< 0.001
Serum Glucose At end of surgery	5.84	0.18	4.94	0.13	5.09	0.22	< 0.001

Data are expressed as mean and standard deviation. P-value < 0.05 was considered statistically significant.

Table (14) Post hoc pair wise comparisons (P value between each 2 groups)

	GA versus PB	GA versus SB	PB versus SB
Serum Cortisol 30 mins from start of surgery (nmol/l)	< 0.001	< 0.001	1.000
Serum Cortisol At end of surgery (nmol/l)	< 0.001	< 0.001	1.000
Serum Glucose 30 mins from start of surgery	< 0.001	< 0.001	1.000
Serum Glucose At end of surgery	< 0.001	< 0.001	0.137

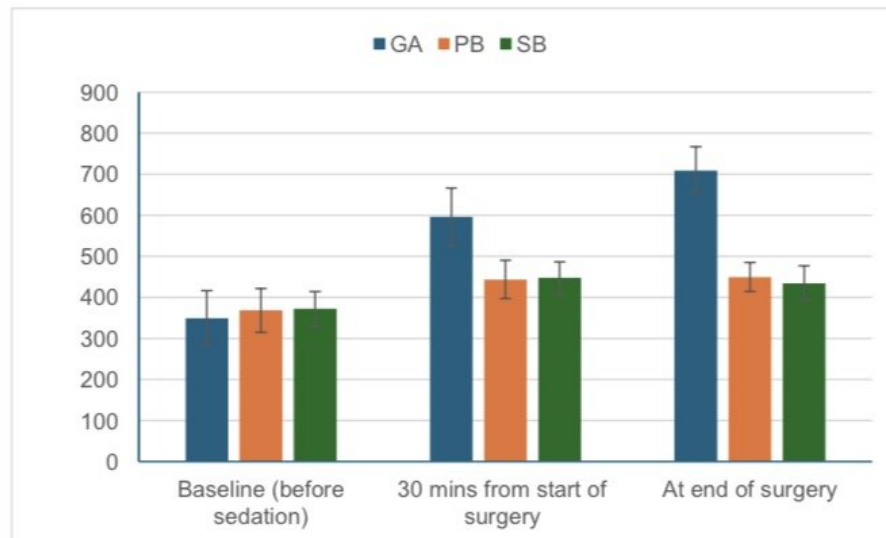


Figure 23: Intraoperative serum cortisol

A bar chart comparing serum cortisol level between the three groups baseline, after 30 mins from start of surgery and at end of surgery.

Table 5: Demographic data; age, BMI and duration of surgery

	GA		PB		SB		P value
	Mean	SD	Mean	SD	Mean	SD	
Age (years)	33.64	9.01	33.93	8.03	34.43	10.14	0.974
BMI	26.57	1.91	25.93	2.73	26.57	2.28	0.703
Duration of surgery (mins)	105.71	10.72	108.57	10.27	106.43	11.67	0.772

Data are expressed as mean and standard deviation. P -value < 0.05 was considered statistically significant.

Table (6) sex distribution, medical history and ASA classification

		GA		PB		SB		P value
		Count	%	Count	%	Count	%	
Sex	M	6	42.9%	6	42.9%	7	50.0%	0.908
	F	8	57.1%	8	57.1%	7	50.0%	
Medical history	HTN	2	14.3%	2	14.3%	3	21.4%	1
	Free	12	85.7%	12	85.7%	11	78.6%	
ASA	1	12	85.7%	12	85.7%	11	78.6%	1
	2	2	14.3%	2	14.3%	3	21.4%	

Data are expressed as numbers (%). F=females, M= Males. P -value < 0.05 was considered statistically significant.

Table (15) Intraoperative heart rate

	GA		PB		SB		P value
	Mean	SD	Mean	SD	Mean	SD	
Preoperative HR baseline (beat/min)	76.43	5.21	76.93	4.53	76.29	5.69	0.942
Post Induction HR (beat/min)	79.43	6.60	76.36	6.92	75.00	7.86	0.256
Post Incision HR (beat/min)	82.86	8.14	74.07	7.34	73.14	6.46	0.002
HR 15 mins (beat/min)	75.71	17.52	72.93	7.13	72.29	7.19	0.713
HR 30 mins (beat/min)	74.21	13.36	72.21	9.74	76.07	6.65	0.615
HR 45 mins (beat/min)	79.07	10.43	72.93	10.01	74.50	8.27	0.227
HR 60 mins (beat/min)	77.21	9.88	73.43	6.85	75.50	7.47	0.477

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HR 75 mins (beat/min)	79.00	6.14	73.29	5.17	74.79	8.75	0.086
HR 90 mins (beat/min)	78.93	5.61	73.29	3.95	75.43	6.06	0.025
HR 105 mins (beat/min)	80.44	6.91	73.78	5.17	78.38	3.66	0.048
HR 120 mins (beat/min)	81.00	8.72	73.20	4.38	80.50	1.00	0.089

Data are expressed as mean and standard deviation. P-value < 0.05 was considered statistically significant.

Table (16) Post hoc pair wise comparison for HR (P value between each 2 groups)

		PB	SB
	GA	0.022	0.263
HR 90 mins (beat/min)	PB		0.870
	GA	0.049	1.000
HR 105 mins (beat/min)	PB		0.292
	GA		

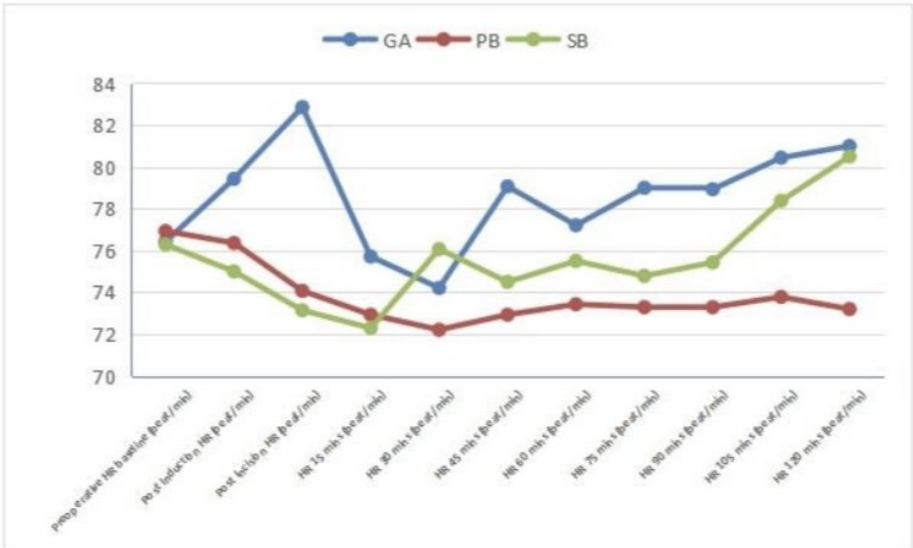


Figure 25: Intraoperative change in heart rate

A line chart showing a comparison between the three groups regarding intraoperative heart rate (HR).

Table (17) Intraoperative systolic blood pressure

	GA		PB		SB		P value
	Mean	SD	Mean	SD	Mean	SD	
Preoperative SBP baseline (mmhg)	116.14	9.44	119.93	8.51	123.71	6.02	0.059
Post Induction SBP (mmhg)	111.93	7.38	112.00	8.12	113.93	4.27	0.680
Post Incision SBP (mmhg)	127.43	14.53	116.43	5.61	115.93	6.55	0.005
SBP 15 mins (mmhg)	131.57	18.30	115.36	12.73	111.57	10.27	0.001
SBP 30 mins (mmhg)	128.64	9.33	116.00	15.88	115.07	9.04	0.007
SBP 45 mins (mmhg)	122.57	14.65	114.86	9.16	114.79	7.68	0.108
SBP 60 mins (mmhg)	125.29	8.10	117.93	8.28	117.14	7.58	0.019
SBP 75 mins (mmhg)	122.36	6.85	116.21	7.59	118.79	11.71	0.204
SBP 90 mins (mmhg)	124.36	5.58	116.93	6.93	117.71	6.07	0.005
SBP 105 mins (mmhg)	124.56	5.77	118.38	7.37	118.75	3.73	0.067
SBP 120 mins (mmhg)	127.67	2.52	116.80	4.60	118.75	2.99	0.009

Data are expressed as mean and standard deviation. P-value < 0.05 was considered statistically significant

Table (18) Post hoc pair wise comparison for SBP (P value between each 2 groups)

	GA versus	GA versus	PB versus
	PB	SB	SB
Post Incision SBP (mmhg)	0.015	0.010	1.000
SBP 15 mins (mmhg)	0.013	0.002	1.000
SBP 30 mins (mmhg)	0.022	0.013	1.000
SBP 60 mins (mmhg)	0.059	0.031	1.000
SBP 90 mins (mmhg)	0.009	0.022	1.000
SBP 120 mins (mmhg)	0.009	0.036	1.000

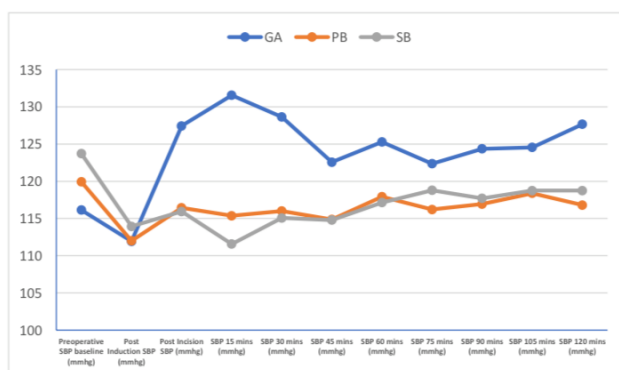


Figure 26: Intraoperative change in systolic blood pressure

Table (19) Intraoperative Diastolic blood pressure

	GA		PB		SB		P value
	Mean	SD	Mean	SD	Mean	SD	
Preoperative DBP baseline (mmhg)	70.93	2.76	69.64	5.20	72.86	6.88	0.273
Post Induction DBP (mmhg)	68.79	8.20	63.79	7.28	65.50	7.46	0.227
Post Incision DBP (mmhg)	77.14	9.49	68.07	7.16	67.00	4.69	0.001
DBP 15 mins (mmhg)	81.64	13.91	67.36	8.45	65.64	6.01	< 0.001
DBP 30 mins (mmhg)	77.57	5.93	68.86	10.12	67.36	5.53	0.002
DBP 45 mins (mmhg)	76.79	9.87	64.43	7.02	67.43	6.62	0.001
DBP 60 mins (mmhg)	77.57	6.57	68.29	6.87	69.43	4.86	< 0.001
DBP 75 mins (mmhg)	75.00	8.33	67.21	4.59	69.43	7.00	0.013
DBP 90 mins (mmhg)	74.57	5.11	67.07	3.50	68.07	5.85	< 0.001
DBP 105 mins (mmhg)	77.56	5.32	68.75	3.15	66.00	4.66	< 0.001
DBP 120 mins (mmhg)	76.00	5.29	68.60	1.34	65.75	7.68	0.075

Data are expressed as mean and standard deviation. P-value < 0.05 was considered statistically significant.

Table (20) Post hoc pair wise comparison for DBP (P value between each 2 groups)

	GA versus		PB versus	
	PB	SB	SB	
Post Incision DBP (mmhg)	0.007	0.002	1.000	
DBP 15 mins (mmhg)	0.002	< 0.001	1.000	
DBP 30 mins (mmhg)	0.011	0.003	1.000	
DBP 45 mins (mmhg)	0.001	0.011	0.976	
DBP 60 mins (mmhg)	0.001	0.004	1.000	
DBP 75 mins (mmhg)	0.013	0.111	1.000	
DBP 90 mins (mmhg)	0.001	0.004	1.000	
DBP 105 mins (mmhg)	0.002	< 0.001	0.707	

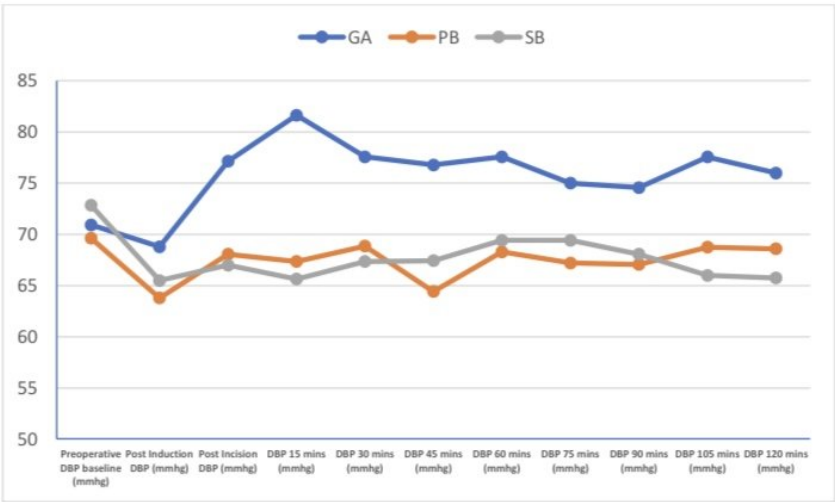


Figure 27: Intraoperative change in diastolic blood pressure

Table (21) Intraoperative mean arterial blood pressure

	GA		PB		SB		P value
	Mean	SD	Mean	SD	Mean	SD	
Preoperative MAP baseline (mmhg)	86.00	3.70	86.43	5.73	89.93	6.13	0.112
Post Induction MAP (mmhg)	83.21	7.61	79.79	6.17	81.71	5.78	0.392
Post Incision MAP (mmhg)	93.50	11.38	84.14	5.91	83.43	4.55	0.002

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MAP 15 mins (mmhg)	98.36	15.05	83.50	9.25	80.93	6.62	< 0.001
MAP 30 mins (mmhg)	94.57	5.65	84.57	11.55	83.29	5.97	0.001
MAP 45 mins (mmhg)	92.00	11.08	81.29	7.29	83.21	6.39	0.004
MAP 60 mins (mmhg)	93.50	5.77	83.71	7.33	85.14	5.23	< 0.001
MAP 75 mins (mmhg)	90.71	7.08	84.14	4.87	86.00	8.01	0.040
MAP 90 mins (mmhg)	91.21	4.77	84.07	3.45	84.64	4.94	< 0.001
MAP 105 mins (mmhg)	93.33	5.07	84.00	5.27	83.63	4.07	< 0.001
MAP 120 mins (mmhg)	93.33	4.04	85.20	3.03	83.50	5.74	0.036

Data are expressed as mean and standard deviation. *P*-value < 0.05 was considered statistically significant.

Table (22) Post hoc pair wise comparison for MAP (*P* value between each 2 groups)

	GA versus	GA versus	PB versus
	PB	SB	SB
Post Incision MAP (mmhg)	0.009	0.005	1.000
MAP 15 (mmhg)	0.003	< 0.001	1.000
MAP 30 mins (mmhg)	0.008	0.002	1.000
MAP 45 mins (mmhg)	0.006	0.028	1.000
MAP 60 mins (mmhg)	< 0.001	0.003	1.000
MAP 75 mins (mmhg)	0.043	0.220	1.000
MAP 90 mins (mmhg)	< 0.001	0.001	1.000
MAP 105 mins (mmhg)	0.001	0.001	1.000
MAP 120 mins (mmhg)	0.090	0.047	1.000

		GA		PB		SB		P value
		Count	%	Count	%	Count	%	
Need for postoperative Diclofenac	Yes	10	71.4%	3	21.4%	3	21.4%	0.007
	No	4	28.6%	11	78.6%	11	78.6%	
Need for postoperative Pethidine	Yes	9	64.3%	1	7.1%	0	0.0%	< 0.001
	No	5	35.7%	13	92.9%	14	100.0%	

Data are expressed as numbers and percentage. P-value < 0.05 was considered statistically significant.

Table (24) Time of first rescue analgesia (hours)

	GA		PB		SB		P value
	Mean	SD	Mean	SD	Mean	SD	
Time of first rescue analgesia (hours)	1.20	1.62	4.33	0.58	6.25	1.26	<0.001

Data are expressed as mean and standard deviation. P-value < 0.05 was considered statistically significant.

Table (25) Post hoc pair wise comparisons (P value between each 2 groups)

	<u>GA versus</u> <u>PB</u>	<u>GA versus</u> <u>SB</u>	<u>PB versus</u> <u>SB</u>
Time of first rescue analgesia (hours)	0.016	< 0.001	0.310



Table (26) VRS pain score in the postoperative 24 hrs

	GA		PB		SB		P value
	Mean	SD	Mean	SD	Mean	SD	
VRS pain score 0 hr	1.57	1.09	0.29	0.47	0.14	0.36	< 0.001
VRS pain score 1 hr	2.50	1.83	0.36	0.50	0.21	0.43	< 0.001
VRS pain score 2 hrs	2.14	1.61	0.43	0.51	0.21	0.43	< 0.001
VRS pain score 4 hrs	2.29	1.54	1.29	0.83	0.93	0.27	0.003
VRS pain score 6 hrs	2.50	1.70	1.21	0.43	1.14	0.36	0.002
VRS pain score 8 hrs	2.29	1.54	1.14	0.36	1.07	0.27	0.002
VRS pain score 12 hrs	0.36	0.63	0.21	0.58	0.14	0.53	0.617
VRS pain score 24 hrs	0.21	0.43	0.14	0.36	0.14	0.36	0.852

Data are expressed as mean and standard deviation. P -value < 0.05 was considered statistically significant.

Table (27) Post hoc pair wise comparison for VRS (P value between each 2 groups)

	GA versus	GA versus	PB versus
	PB	SB	SB
VRS pain score 0 hr	< 0.001	< 0.001	1.000
VRS pain score 1 hr	< 0.001	< 0.001	1.000
VRS pain score 2 hrs	< 0.001	< 0.001	1.000
VRS pain score 4 hrs	0.040	0.003	1.000
VRS pain score 6 hrs	0.006	0.004	1.000
VRS pain score 8 hrs	0.007	0.004	1.000

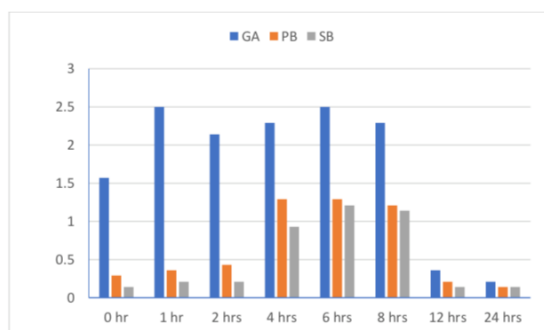


Figure 29: VRS in the postoperative 24 hrs

4-hour chart comparing VRS scores between the three groups in the postoperative 24 hrs

